Canon

CDI-E123-010



PRINTED IN MALAYSIA

Canon DIGITAL CAMERA PowerShot A75 Camera User Guide

ENGLISH

CDI-E123

Canon

# PowerShot A75

DIGITAL CAMERA

# Camera User Guide

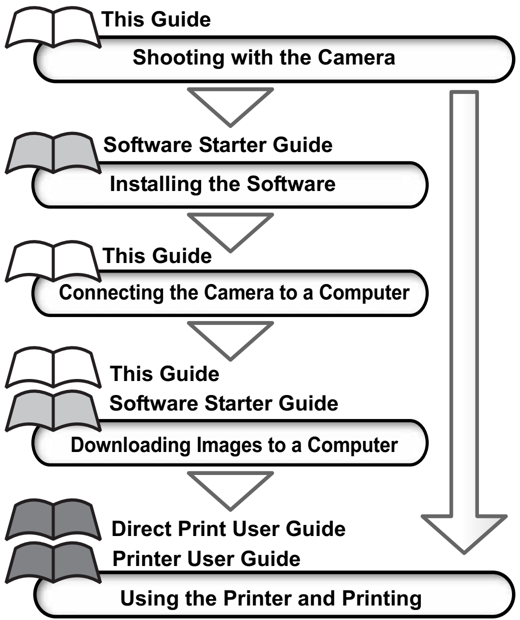
DiG!C




PictBridge Exif Print DPOF DIRECT PRINT BUBBLE JET DIRECT

- Please read the *Read This First* section (p. 7).
- Please also see the *Software Starter Guide* and the *Direct Print User Guide*.

# Flowchart and Reference Guides



**Use of genuine Canon accessories is recommended.**

This product is designed to perform optimally when used with genuine Canon accessories. Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis.

## Camera Body Temperature

If your camera is used for prolonged periods, the camera body may become warm. Please be aware of this and take care when operating the camera for an extended period.

## About the LCD Monitor

The LCD monitor is produced with extremely high-precision manufacturing techniques. More than 99.99% of the pixels operate to specification. Less than 0.01% of the pixels may occasionally misfire or appear as red or black dots.
This has no effect on the recorded image and does not constitute a malfunction.

**Video Format**

Please set the camera's video signal format to the one used in your region before using it with a TV monitor (p. 113).

**Language Setting**

Please see page 24 to change the language setting.
Please read through the *Read This First* section (p. 7) before using your camera.

**Trademark Acknowledgments**

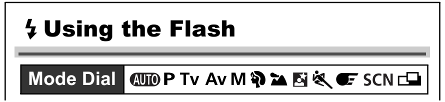
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# Table of Contents

Functions and operations tables. These pages are shaded on the right edges to make them easy to find.

## Symbols Used

Icons under title bars show the operations mode. As in the example below, the mode dial should be set to AUTO, P, Tv, Av, M, SCN or .




This mark denotes issues that may affect the camera's operation.

This mark denotes additional topics that complement the basic operating procedures.

## Please Read

### Test Shots

Before you try to photograph important subjects, we highly recommend that you shoot several trial images to confirm that the camera is operating and being operated correctly. Please note that Canon, its subsidiaries and affiliates, and its distributors are not liable for any consequential damages arising from any malfunction of a camera or accessory, including CompactFlash™ cards, that results in the failure of an image to be recorded or to be recorded in a format that is machine readable.

### Warning Against Copyright Infringement

Please note that Canon digital cameras are intended for personal use and should never be used in a manner that infringes upon or contravenes international or domestic copyright laws and regulations. Please be advised that in certain cases the copying of images from performances, exhibitions, or commercial properties by means of a camera or other device may contravene copyright or other legal rights even if the image was shot for personal use.

### Warranty Limitations

This camera's warranty is only effective in the country of sale. If a problem arises while the camera is in use abroad, please convey it back to the country of sale before proceeding with a warranty claim to a Canon Customer Support Help Desk.

**For Canon Customer Support contacts, please see the *Canon Limited Warranty* supplied with your camera.**

## Safety Precautions

- Before using the camera, please ensure that you have read and understood the safety precautions described below. Always ensure that the camera is operated correctly.
- The safety precautions noted on the following pages are intended to instruct you in the safe and correct operation of the camera and its accessories to prevent injuries or damage to yourself, other persons and equipment.
- In the next few pages, the term “equipment” refers primarily to the camera, batteries, and separately sold battery and charger kit and compact power adapter.

## ⚠ WARNINGS

- **Do not aim the camera directly into the sun or at other intense light sources which could damage your eyesight.**
- **Do not trigger the flash in close proximity to human or animal eyes.** Exposure to the intense light produced by the flash may damage eyesight. In particular, remain at least one meter (39 inches) away from infants when using the flash.
- **Store this equipment out of the reach of children and infants.** Accidental damage to the camera or batteries by a child could result in serious injury. In addition, placement of the strap around a child's neck could result in asphyxiation.
- **Do not attempt to disassemble or alter any part of the equipment that is not expressly described in this guide.** Disassembly or alteration may result in high-voltage electrical shock. Internal inspections, alterations and repairs should be conducted by qualified service personnel authorized by your camera distributor or a Canon Customer Support Help Desk.
- **To avoid the risk of high-voltage electrical shock, do not touch the flash portion of the camera if it has been damaged.** Similarly, never touch internal portions of the equipment that become exposed as a result of damage. There is a risk of high-voltage electrical shock. Please take the first opportunity to consult your camera distributor or a Canon Customer Support Help Desk.
- **Stop operating the equipment immediately if it emits smoke or noxious fumes.** Failure to do so may result in fire or electrical shock. Immediately turn the camera’s power off, remove the camera batteries or unplug the power cord from the power outlet. Confirm that smoke or fume emissions have ceased. Please consult your camera distributor or the closest Canon Customer Support Help Desk.

- **Stop operating the equipment if it is dropped or the casing is damaged.** Failure to do so may result in fire or electrical shock. Immediately turn the camera’s power off, remove the camera batteries or unplug the power cord from the power outlet. Please consult your camera distributor or the closest Canon Customer Support Help Desk.
- **Do not allow the equipment to come into contact with, or become immersed in, water or other liquids.** Do not allow liquids to enter the interior. The camera has not been waterproofed. If the exterior comes into contact with liquids or salt air, wipe it dry with a soft, absorbent cloth. In the event that water or other foreign substances enter the interior, immediately turn the camera's power off and remove the camera batteries or unplug the power cord from the power outlet. Continued use of the equipment may result in fire or electrical shock. Please consult your camera distributor or the closest Canon Customer Support Help Desk.
- **Do not use substances containing alcohol, benzene, thinners or other flammable substances to clean or maintain the equipment.** The use of these substances may lead to fire.
- **Remove the power cord on a regular periodic basis and wipe away the dust and dirt that collects on the plug, the exterior of the power outlet and the surrounding area**. In dusty, humid or greasy environments, the dust that collects around the plug over long periods of time may become saturated with humidity and short-circuit, leading to fire.
- **Do not cut, damage, alter or place heavy items on the power adapter cord.** Any of these actions may cause an electrical short circuit, which may lead to fire or electrical shock.
- **Do not handle the power cord if your hands are wet.** Handling it with wet hands may lead to electrical shock. When unplugging the cord, ensure that you hold the solid portion of the plug. Pulling on the flexible portion of the cord may damage or expose the wire and insulation, creating the potential for fires or electrical shocks.
- **Use of power sources not expressly recommended for this equipment may lead to overheating, distortion of the equipment, fire, electrical shock or other hazards.** Use only the recommended power accessories.

- **Do not place the batteries near a heat source or expose them to direct flame or heat. Neither should you immerse them in water.** Such exposure may damage the batteries and lead to the leakage of corrosive liquids, fire, electrical shock, explosion or serious injury.
- **Do not attempt to disassemble, alter or apply heat to the batteries.** There is serious risk of injury due to an explosion. Immediately flush with water any area of the body, including the eyes and mouth, skin, or clothing that comes into contact with the inner contents of a battery.
- **Avoid dropping or subjecting the batteries to severe impacts that could damage the casings.** It could lead to leakage and injury.
- **Do not short-circuit the battery terminals with metallic objects, such as key holders.** It could lead to overheating, burns and other injuries.
- **Before you discard a battery, cover the terminals with tape or other insulators to prevent direct contact with other objects.** Contact with the metallic components of other materials in waste containers may lead to fire or explosions. Discard the batteries in specialized waste facilities if available in your area.
- **Use only recommended batteries and accessories.** Use of batteries not expressly recommended for this equipment may cause explosions or leaks, resulting in fire, injury and damage to the surroundings.
- **If using AA-size NiMH batteries, use only Canon AA-size NiMH batteries and the charger recommended for use with these batteries.** Use of another charger may cause batteries to overheat or deform, posing risk of fire or electric shock.
- **Disconnect the battery charger or compact power adapter from both the camera and power outlet after recharging and when the camera is not in use to avoid fires and other hazards.**
- **The camera terminal of the battery charger cord and the compact power cord is designed for exclusive use with your camera.** Do not use it with other products or batteries. There is a risk of fire and other hazards.
- **Exercise due caution when screwing on the separately sold wide converter, tele-converter, close-up lens and conversion lens adapter.** If they loosen, fall off and shatter, the glass shards may cause an injury.

## ⚠ CAUTIONS

- **Avoid using, placing or storing the equipment in places subject to strong sunlight or high temperatures, such as the dashboard or trunk (boot) of a car.** Exposure to intense sunlight and heat may cause the batteries to leak, overheat or explode, resulting in fire, burns or other injuries. High temperatures may also cause deformation of the casing. Ensure that there is good ventilation when using the battery charger to charge the battery pack or power the camera.
- **Do not store the equipment in humid or dusty areas.** Storage in such areas could lead to fire, electrical shock or other damage.
- **Be careful not to bang the camera or subject it to strong impacts or shocks that could lead to injury or damage the equipment when wearing or holding it by the strap.**
- **Be careful not to cover the flash with your fingers or clothing when shooting.** The flash may be damaged and emit smoke or noise. In addition, do not touch the surface of the flash after taking several pictures in rapid succession. Either action could result in burns.
- **Do not operate the flash with dirt, dust or other items stuck to its lens.** The resulting heat build-up could damage the flash.
- **Ensure that the battery charger or compact power adapter is plugged into a power outlet of the specified rating, not over the specified rating.** The plug of the battery charger varies according to region.
- **Do not use the battery charger or compact power adapter if the cable or plug is damaged, or if the plug is not fully inserted into the power outlet.**
- **Do not allow metal objects (such as pins or keys) or dirt to contact the charger terminals or plug.**
- **If your camera is used for prolonged periods, the camera body may become warm.** Please take care when operating the camera for an extended period as your hands may experience a burning sensation.

## Preventing Malfunctions

### Avoid Strong Magnetic Fields

Never place the camera in close proximity to electric motors or other equipment generating strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt image data.

### Avoid Condensation Related Problems

Moving the equipment rapidly between hot and cold temperatures may cause condensation (water droplets) to form on its external and internal surfaces. You can avoid this by placing the equipment in an airtight, resealable plastic bag and letting it adjust to temperature changes slowly before removing it from the bag.

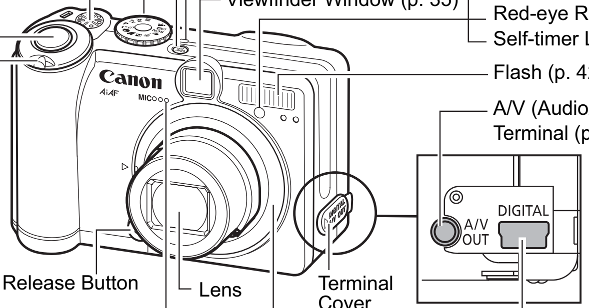
### If Condensation Forms Inside the Camera

Stop using the camera immediately if you detect condensation.
Continued use may damage the equipment. Remove the CF card and battery or power cord (if connected) from the camera and wait until the moisture evaporates completely before resuming use.

### Extended Storage

When not using the camera for extended periods of time, remove the batteries from the camera or battery charger and store the equipment in a safe place. Storing the camera for extended periods with batteries installed may cause battery leaks, which can damage the camera.
However, the date, time and other camera settings may reset to default settings if the batteries have been removed for more than three weeks.

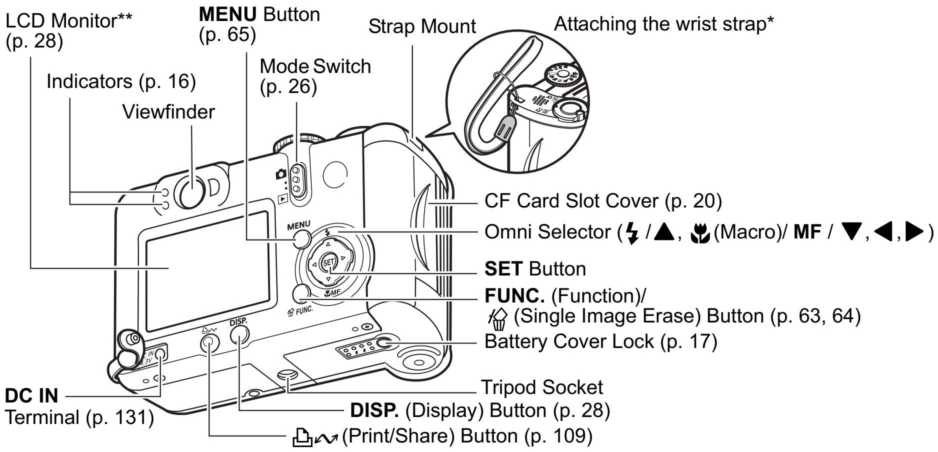
# Components Guide




To connect the camera to a computer or printer, use one of the following cables.
**Computer**: Interface Cable IFC-400PCU (supplied with the camera)
**Direct Print Compatible Printers (Sold Separately)**

- CP Printers: Interface Cable IFC-400PCU (supplied with the camera) or the Direct Interface Cable DIF-100 (supplied with the CP-100/CP-10)
- Bubble Jet Printers:
  - *Bubble Jet Direct* Compatible Printers: Please refer to your Bubble Jet printer user guide.
  - *PictBridge* Compliant Printers: Interface Cable IFC-400PCU (supplied with the camera)
- *PictBridge* Compliant Non-Canon Printers: Interface Cable IFC-400PCU (supplied with the camera)

**Please refer to the *System Map* or the *Direct Print User Guide* supplied with the camera for direct print compatible printer information.**

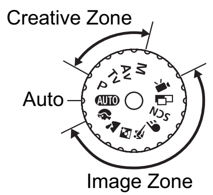



The following operations are accessible through one easy press of the (Print/Share) button.
- **Printing**: See the *Direct Print User Guide* (separate from this guide)
- **Downloading images** (Windows only): See page 104 of this guide and the *Software Starter Guide* (separate from this guide)

**Blue**: Ready to print/Ready to transfer images
**Blinking Blue**: Printing/Transferring

* Be careful not to wave the camera about or catch it on other items when dangling it from the wrist strap.
** The LCD monitor is covered with a thin plastic sheet for protection against scratches during shipment. Remove it before using the camera.

## Shooting Mode Dial




Use the shooting mode dial to select a Shooting mode.

AUTO: Auto (p. 33)
The camera automatically selects settings.

- **Image Zone**
  The camera automatically selects settings according to the image composition type.
  : Portrait (p. 38) : Landscape (p. 38)
  : Night Scene (p. 38) : Fast Shutter (p. 38)
  : Slow Shutter (p. 38)
  : Stitch Assist (p. 38, 48)
  SCN: Special Scene (p. 38, 51) : Movie (p. 55)

- **Creative Zone**
  The user selects exposure, aperture or other settings to achieve special effects.
  **P** : Program AE (p. 75)
  **Tv** : Shutter Speed-priority AE (p. 75)
  **Av** : Aperture-priority AE (p. 76)
  **M** : Manual Exposure (p. 77)

## Indicators

The indicators light or blink when the ON/OFF button or the shutter button is pressed.

- **Indicator Next to the Viewfinder (Upper Indicator)**

**Green:** Ready to record/Ready to communicate (during a computer connection)
**Blinking Green:** Starting up/Recording to CF card/ Reading CF card/Erasing from CF card/ Transmitting data (during a computer connection)
**Orange:** Ready to record (flash on)
**Blinking Orange:** Ready to record (camera shake warning)/Flash is charging (when LCD monitor is on)

- **Indicator Next to the Viewfinder (Lower Indicator)**

**Yellow:** Macro mode/Manual Focus mode/AF Lock mode
**Blinking Yellow:** Focusing difficulty (although you can press the shutter button, try using focus lock or adjusting the focus manually (p. 89))

- **Power Indicator**

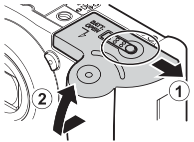
**Green:** Power is on

## Installing the Batteries

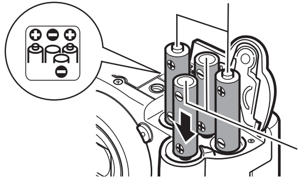
The camera uses four AA-size alkaline batteries supplied with the camera. You may also use separately sold nickel metal hydride (NiMH) batteries.

**1 Be sure that the camera power is off.**

**2 Slide the battery cover lock in the direction of the arrow, and open the cover.**




**3 Insert the batteries as shown.**




**4 Close the battery cover.**

When the indicator next to the viewfinder blinks green, do not turn off the power or open the battery cover. The camera is writing, reading, erasing or transmitting an image to or from the CF card.

- We recommend the use of the separately sold AC Adapter Kit ACK600 to power the camera during long usage sessions (p. 130).
- The separately sold battery charger kit lets you use rechargeable NiMH batteries to power the camera (p. 128).

- For important information, see *Battery Performance* (p. 140).
- For information about the Battery and Charger Kit and AA-size rechargeable NiMH batteries, see the *System Map* (separate from this guide).

## Proper Battery Handling

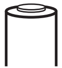
- Use AA-size alkaline or Canon AA-size NiMH batteries (sold separately) only. For information on AA-size NiMH battery handling, see *Using Rechargeable Batteries* (p. 128).
- Never use manganese or lithium batteries, as these battery types may overheat in the camera.
- **Since the performance of alkaline batteries may differ according to brand, the operating time of the batteries you purchase may not be as long as the batteries that came with the camera.**
- Camera operating time may shorten at low temperatures when alkaline batteries are used. Also due to their specifications, alkaline batteries may expire faster than NiMH batteries. If you are using the camera in cold areas or for a long time, we recommend using Canon AA-size NiMH Battery Kit NB4-200 (a four piece set).
- While it is possible to use AA-size nickel-cadmium batteries, performance is unreliable and their use is not recommended.
- **Never mix unused and partially used batteries. Always load four fresh (or fully recharged) batteries at the same time.**
- **Be careful to load the batteries with their positive (+) and negative (-) ends in the right direction.**
- **Never mix batteries of different types or from different manufacturers. All four batteries should be identical.**
- Before inserting the batteries, wipe the battery terminals well with a dry cloth. Oil from one's skin or other dirt may cause a considerable reduction in the number of recordable images or reduced usage time.
- Battery performance deteriorates at low temperatures (especially with alkaline batteries). If you are using the camera in cold areas and batteries are running down faster than they should, you may be able to restore performance by placing batteries in an inner pocket to warm them up prior to use. But be careful that you don't put the batteries into a pocket together with a metal key chain or other metallic objects, as these objects may cause batteries to short-circuit.

- If you do not plan to use the camera for a long time, remove the batteries from the camera and store them in a safe place. Batteries may leak and damage the camera if left installed during prolonged periods of non-use. However, the date, time and other camera settings may reset to default settings if the batteries have been removed for more than three weeks.

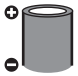
**⚠ WARNING**

Never use damaged batteries or batteries whose outer seal is completely or partially missing or peeled off, as there is risk that such batteries may leak, overheat, or burst. Always check the seals on store-bought batteries before loading them, as some batteries may come with defective seals. Do not use batteries with defective seals.

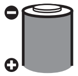
**Never use batteries that look like this.**



Batteries with all or part of the seal (electrical insulation sheath) peeled off.



The positive electrode (plus terminal) is flat.



The negative terminal is correctly formed (protruding from the metal base), but the seal does not extend up over the edge of the metal base.

## Battery Status Indications

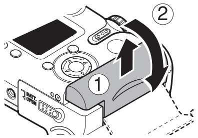
The LCD monitor displays an icon or message to let you know when batteries are low or depleted.

| | |
|---|---|
|  | Batteries are beginning to run low. Replace (or recharge) batteries promptly. Replace or recharge the batteries if you wish to continue using the camera. If the LCD monitor is off, this icon will appear when you press any of the following buttons: **DISP.**, ⚡ or 🌷/ **MF**. |
| **Change the batteries** | Batteries are fully depleted and the camera can no longer operate. You should replace the batteries immediately. |

## Installing a CF Card

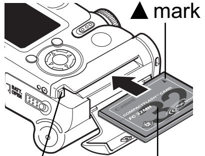
### 1 Be sure that the camera is turned off.

### 2 Slide the CF card slot cover in the direction of the arrow, and open it.

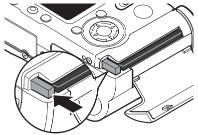



### 3 Insert the CF card with the label facing out.

- Insert the CF card all the way into the slot, so that the CF card eject button pops all the way out.




- To remove the CF card, press the CF card eject button.



### 4 Close the CF card slot cover securely.

- When the indicator next to the viewfinder blinks green, the camera is writing, reading, erasing or transmitting an image to or from the CF card. Do not perform the following, for image data may be lost or corrupted:
  - Do not shake the camera.
  - Do not turn off the power or open the CF card slot cover.
- Be aware that use of CF cards whose contents have been edited at another camera or with another company's software may cause the camera to operate incorrectly.
- You are recommended to use CF cards that have been formatted in your camera (see next page). The card supplied with the camera may be used without further formatting.

For more information on CF cards, see *CF Cards and Estimated Capacities (Recordable Images)* (p. 140).

## About CF Cards

- CF cards are high-precision electronic devices. Do not bend them, apply force to them, or subject them to shocks or vibration.
- Do not attempt to disassemble or alter a CF card.
- Moving a CF card rapidly between temperature extremes will cause condensation to form in the card and lead to a malfunction. To avoid condensation, place the CF card in a sealed plastic bag before moving it into a different temperature zone and allow it to adjust slowly to the new temperature. If condensation forms on the CF card, store it at room temperature until the water droplets have evaporated naturally.
- Place the CF card in the supplied case for storage.
- Do not use or store CF cards in the following types of location.
  - Locations subject to dust or sand
  - Locations subject to high humidity and high temperatures

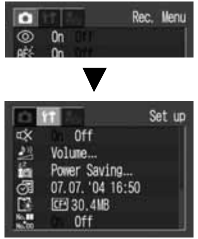
## Formatting a CF Card

You should always format a new CF card or one from which you wish to erase all images and other data.

> Please note that formatting a CF card erases all data, including protected images and other file types. Please check the contents of the CF card before formatting it.

**1** **Turn the power on (p. 25).**

**2** **Press the MENU button and select [ (Set up)] using ◀ or ▶.**




**3** **Select (Format) using ▲ or ▼ and press the SET button.**



**4 Select [OK] using ◀ or ▶ and press the SET button.**




- To cancel formatting instead, select [Cancel] and press the **SET** button.
- The capacity of the CF card displayed after formatting will be less than the rated capacity of the CF card. This is not a malfunction of the CF card or camera.

**5 Press the MENU button.**

- If the camera does not work properly, the inserted CF card may be malfunctioning. Reformatting the CF card may solve the problem.
- When a non-Canon brand CF card is malfunctioning, reformatting it may solve the problem.
- CF cards formatted in another camera, computer or peripheral device may not operate correctly. When that happens, reformat the CF card with this camera.

## Setting the Date/Time

The Set Date/Time menu will appear when the camera is first turned on or the date battery has run down. Start from Step 4 to set the date and time.

**1 Turn on the camera (p. 25).**

**2 Press the MENU button and select the [(Set up)] menu using ◀ or ▶.**




▼




**3 Press ▲ or ▼ to select (Date/Time), and then press the SET button.**



## 4 Set the date and time.




- Press ◀ or ▶ to highlight another field.
- Press ▲ or ▼ to change the value of the highlighted field.
- The date can be set up to the year 2030.

## 5 Press the SET button.

## 6 Press the MENU button.

- The date, time and other camera settings may reset to the default settings if the batteries have been removed for more than three weeks. If this happens, reset these settings.
- For embedding the date on the image data, refer to page 54.
- For printing images with the date on them, refer to page 100 or refer to the *Direct Printer User Guide* (separate from this guide) or the *Software Starter Guide* (separate from this guide).

**Charging the date/time battery**

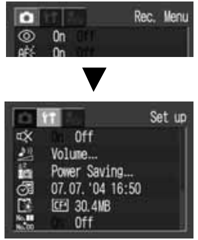
- The camera has a built-in rechargeable lithium battery for saving settings such as the date and time. This battery is recharged by the AA-size batteries while it is in the camera. Right after purchasing the camera, leave fully charged batteries in the camera, or plug in the AC Adapter Kit ACK600 (sold separately), for about 4 hours to charge the date/time battery. It will charge even when the camera power is turned off.
- If the Date/Time menu appears when the camera power is turned on, the date/time battery charge is low. Use the above method to recharge it.

## Setting the Language

Use this feature to select the language for the LCD monitor display.

**1** **Turn on the camera (p. 25).**

**2** **Press the MENU button and select the [ (Set up)] menu using ◀ or ▶.**




**3** **Select (Language) using ▲ or ▼ and press the SET button.**




**4** **Select a language using ▲, ▼, ◀ or ▶ and press the SET button.**




- If you press the **SET** button without pressing the **MENU** button, the camera reverts to the Set up menu without setting the language.

**5** **Press the MENU button.**

**Easy Operation**
In Playback mode, you can display the language setting menu immediately by pressing the **MENU** button while holding the **SET** button (this operation is not available during movie playback or during a connection to a separately sold printer).

## Turning the Power On/Off

**1 Press the ON/OFF button until the power indicator lights green (p. 16).**

### Shooting Mode

- Current shooting settings will appear in the LCD monitor for about 6 seconds.

If you turn the mode switch to ▶, the lens will retract after approximately 1 minute.

### Playback Mode

- The LCD monitor displays an image.

## Turning the Camera Off

- Press the ON/OFF button again to turn the power off.

- You will hear a start-up sound and see the start-up image when the power comes on. (To change the start-up sound and image, see below and pages 72 and 115.)
- The start-up image does not appear when the LCD monitor is off in Shooting mode or the **A/V OUT** terminal is connected to a TV.

**Turning on the camera without the start-up sound and image**

Press and hold the **SET** button, then turn on the power.

## Power Saving Function

This camera is equipped with a power saving function. Depending on the power saving setting, the camera may power down or the LCD monitor may go off automatically.

- **Auto Power Down**

**[On]:**

**Shooting mode:**

Powers down approximately 3 minutes after the last time a camera control is accessed.

**Playback mode:**

Powers down approximately 5 minutes after the last time a camera control is accessed.

**Printer connection mode:**

Powers down approximately 5 minutes after the last time a camera control is accessed or something is printed on the printer.

**When the Auto Power Down Function Activates**
Press the ON button again.

**[Off]:**
The power saving function does not activate.

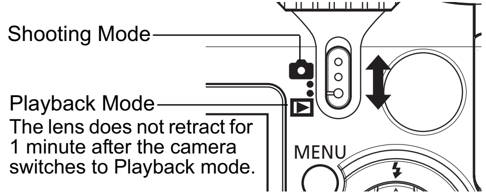
- **Display Off**
The LCD monitor automatically shuts off approximately 1 minute* after the last time a camera control is accessed.
* This time can be changed (p. 70).

**When the Display Off Function Activates**
The LCD monitor display turns back on if any button other than the ON/OFF button is pressed.

- The power saving function will not activate while the camera is in Auto Play mode or during a computer connection (p. 93, 104).
- You can turn off the power saving function in the [ (Set up)] menu (p. 70).

## Switching between Shooting and Playback

You can quickly switch between Shooting mode and Playback mode. This is convenient when you wish to shoot again after checking or erasing an image immediately after it is shot.




**Shooting Mode**

- **Slide the mode switch to .**

**Playback Mode**

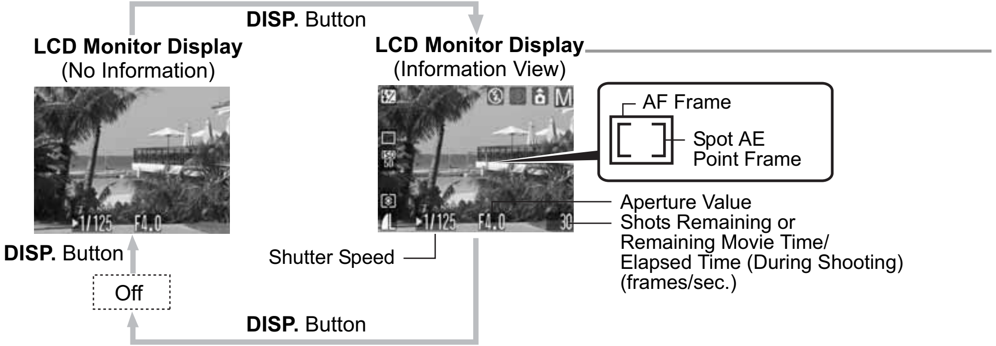
- **Slide the mode switch to .**
  - When a printer (sold separately) is connected, images can be printed (see the *Direct Print User Guide*).
  - When the camera is connected to a computer, recorded images can be downloaded to and viewed with a computer (p. 104).

- When a printer (sold separately) is properly connected, , , or appears on the LCD monitor.
- When a computer is properly connected, the LCD monitor turns off.

## Using the LCD Monitor

The LCD monitor can be used to compose images while shooting, adjust settings menus and play back images. Pressing the **DISP.** button cycles the LCD monitor to the next mode each time the button is pressed.

### Shooting Mode




**The AF frame changes according to its On/Off setting (LCD monitor On).**

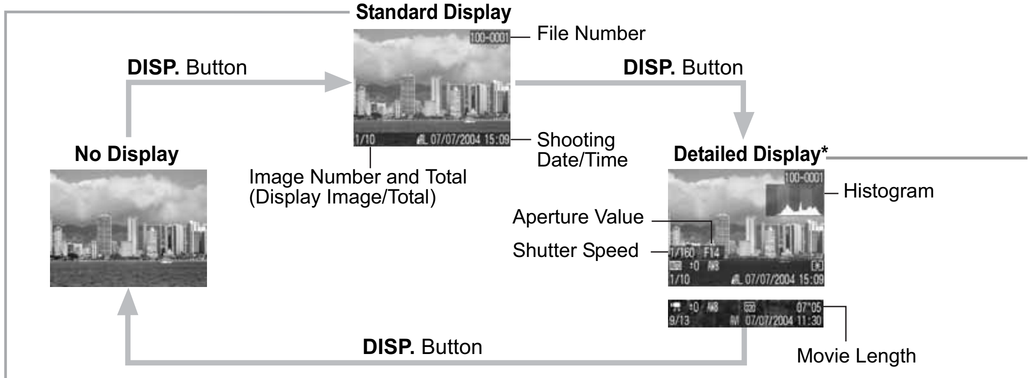
| AiAF set to [On] (p. 78) | AiAF set to [Off] (p. 78) |
|---|---|
| ● Green: Focusing complete (focused AF frame) | ● Green: Focusing complete |
| ● Does not appear: Focusing difficulty | ● Yellow: Focusing difficulty |

| | | |
|---|---|---|
| *1 | Shooting Mode | p. 38, 74 |
| -2 ··· +2 | Exposure Compensation | p. 80 |
| | White Balance | p. 81 |
| | Drive Mode | p. 45, 47 |
| ISO 50 ISO 100 ISO 200 ISO 400 | ISO Speed | p. 84 |
| | Photo Effect | p. 85 |
| | Light Metering Mode | p. 79 |
| | Compression | p. 40 |
| 640 320 160<br>L M1 M2 S ( ) | Resolution<br>Postcard Print | p. 40<br>p. 53 |
| | Flash | p. 42 |
| | Red-eye Reduction | p. 43 |
| | Macro Mode | p. 44 |
| MF | Manual Focus | p. 89 |
| | Auto Rotate Function | p. 91 |
| ● (Red) | Movie Recording Mode | p. 55 |
| 3.8× 4.8× 6.0× 7.4× 10× | Digital Zoom Setting*2 | p. 46 |
| | Camera Shake Warning | p. 16 |
| | Low Battery | p. 19 |

*1 : The icons of all the **SCN** mode options appear (p. 51).
*2 : Zoom powers reflect the combined optical and digital zoom effects. These figures appear when the digital zoom is activated.

- When a Shooting mode setting is changed, the settings appear on the LCD monitor for about 6 seconds even if the LCD monitor is set to No information or off. (The Shooting mode settings may not appear depending on the camera setting.) You can set the flash, Macro mode, and the manual focus settings while this information appears on the LCD monitor.
- and the icons in the above appear even when the information view is turned off.
- In addition to the above, the AF frame, spot light metering frame, shutter speed, aperture value, recordable images or recordable movie time are displayed as in the example to the left.
- Setting the mode dial to or modes turns the LCD monitor on regardless of whether it is set to on or off.
- A slow shutter speed has likely been selected because of insufficient lighting if the upper indicator beside the viewfinder blinks orange after the metering preparations are complete and the camera shake icon ( ) displays in the LCD monitor. Set the flash to or , or affix the camera to a tripod to shoot.
- After you take a photo by fully pressing the shutter button, the image displays on the LCD monitor for approximately two seconds (or the review duration you set from 2 to 10 seconds). If you press the **SET** button while the image is displayed, it will continue to display (p. 36).

## Playback Mode




| | | |
|---|---|---|
| (Compression icons) | Compression | p. 40 |
| L M1 M2 S (icon) | Resolution (Still image) | p. 40 |
| ♪ | Sound memo (WAVE file) | p. 92 |
| AVI | Movie | p. 55 |
| (Protection icon) | Protection Status | p. 94 |

* Detailed Display is not available in index playback (9 images).

| | | |
|---|---|---|
| AUTO P Tv Av M SCN* | Shooting Mode | p. 38, 74 |
| -2 ··· ±0 ··· +2 | Exposure Compensation | p. 80 |
| AWB | White Balance | p. 81 |
| V N LS S BW | Photo Effects | p. 85 |
| ISO 50 ISO 100 ISO 200 ISO 400 | ISO Speed | p. 84 |
| | Flash | p. 42 |
| | Macro Mode | p. 44 |
| MF | Manual Focus | p. 89 |
| | Light Metering Mode | p. 79 |
| 640 320 160 | Resolution (Movies) | p. 40 |
| | Low Battery | p. 19 |

In addition to the above, the shutter speed, aperture setting, histogram and recorded movie time are displayed as in the example in the figure on the left.

* Each mode of the **SCN** mode appears (p. 51).

The following information may also appear with some image files.

| | |
|---|---|
| ♪? | An audio file other than a wave file, or a file with an unrecognized format, is attached. |
| ⚠ | A JPEG file not supported by “Design rule for Camera File system” (DCF) standards. |
| RAW | RAW format file |
| ? | A file with an unrecognized format. |

The image in the LCD monitor may darken when the monitor is used under sunlight or other strong lighting. This is not a defect.

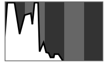
- The on/off setting of the LCD monitor display mode is memorized when the camera is turned off. When the camera is turned on again it assumes the last mode. However, when the LCD monitor is turned on and the “Change the Batteries” message appears, the LCD monitor may not automatically turn on the next time the camera is started.

- While a recorded image is displayed on the LCD monitor, you can check the exposure with the graph (see *About the Histogram* (below)) that shows the distribution of the brightness data. If the exposure requires adjustment, set the exposure compensation and re-shoot. (Press the **DISP.** button if the histogram and other information is not shown.)
- Please note that image information recorded by this camera may not display correctly on other cameras and image information recorded by other cameras may not display correctly on this camera.

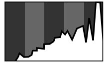
**About the Histogram**

- The histogram is a graph that allows you to judge the brightness of the shot image. The greater the bias toward the left in the graph, the darker the image. The greater the bias toward to the right, the brighter the image. If the image is too dark, adjust the exposure compensation to a positive value. Similarly, adjust the exposure compensation to a negative value if the image is too bright (p. 80).

**Sample Histograms**


Dark image


Balanced image


Bright image

See *Functions Available in Each Shooting Mode* (p. 151) at the end of this manual to find out which settings can be changed in which Shooting modes.

## AUTO Auto Mode

**Mode Dial AUTO**

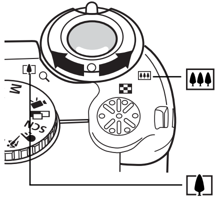
In this mode, all you have to do is press the shutter button and let the camera do everything else.

**1** **Check that the camera is in Shooting mode (p. 26).**

**2** **Turn the Shooting mode dial to AUTO.**

**3** **Aim the camera at the subject you wish to shoot.**

**4** **Use the zoom lever to achieve the desired composition (relative subject size in the viewfinder).**

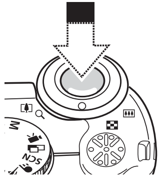


: Decreases the size of the subject (Wide angle)

: Magnifies the size of subject (Telephoto)

- The angle of view can be adjusted within the 35 to 105 mm range, in 35mm film equivalent.
- When the LCD monitor is on, the combined use of the digital zoom and optical zoom enables magnified shooting up to approx. 10x (See *Digital Zoom*, p. 46).

## 5 Press the shutter button halfway.

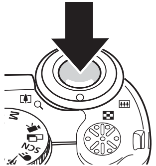


- The shutter button has a two-stage action.

  **Pressing Halfway**
  Pressing halfway automatically sets the exposure and focus.

  - Two beeps will sound when the camera has finished metering, and the indicator next to the viewfinder will light green or orange. If the LCD monitor is on, the AF frame will appear green.
  - The indicator next to the viewfinder will blink yellow and the beep will sound one time if the subject is difficult to focus on.

## 6 Press the shutter button all the way.



**Pressing Fully**
Pressing fully releases the shutter.

- You will hear the shutter sound when the shot is complete. Do not move the camera until you hear this sound.
- The indicator next to the viewfinder blinks green while data is recorded onto the CF card.
- The picture appears for two seconds on the LCD monitor, if it is on.

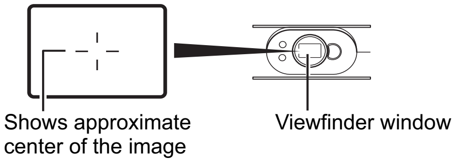
- See page 151 for settings that can be changed in this mode.
- With the Review function, you can change the length of time images show on the LCD monitor after shooting, or set it so they do not show at all (p. 36).
- If the orange or yellow indicator blinks while you press halfway, you can still press fully to take the shot.
- Images are first saved into the camera's internal memory before being recorded onto the CF card, allowing the next images to be taken immediately as long as sufficient space is available in the internal memory.
- The beep and shutter sound can be set On/Off in the Set up menu (p. 69).

- When the shutter sound is set to [1, 2, 3 (On)] (p. 72) and [Mute] is set to On, no sound will be heard.
- There is no shutter sound in movie mode.
- Shots cannot be taken while the flash is charging.

## Shooting with the Viewfinder

You can save the power by turning the LCD monitor off (p. 28) and using the viewfinder to shoot.

**1 Compose the image so that the subject appears in the center of the frame in the viewfinder (autofocus range).**




**About the Autofocus Function**

This camera employs AiAF technology (artificial intelligence autofocus) which uses a broad metering field to calculate the focal distance with high precision. It delivers a crisp focus even when the photographic subject is slightly off-center.

**Image Seen in Viewfinder vs. Recorded Image**

Please note that the actual image may differ from the image seen in the optical viewfinder due to the physical separation between the viewfinder and lens. This is more noticeable the closer the subject is to the lens. In some cases, portions of images shot up close that appear in the viewfinder will not appear in the recorded image. Please use the LCD monitor to shoot images up close (p. 44).

**AF-assist Beam**

- The AF-assist beam will sometimes emit when the shutter button is pressed halfway to assist focusing in certain conditions, i.e. dark conditions.
- The AF-assist beam can be turned off (p. 67).
  For example, if animals are your subject, turn off the beam when shooting in the dark to avoid startling them.
  However, please keep in mind the following facts.
  - If the AF-assist beam is turned off, it may become more difficult for the camera to focus in dark conditions.
  - The red-eye reduction lamp may emit when you press the shutter button halfway even if the AF-assist beam is turned off.

  In order to prevent any lamp from emitting before the flash fires, set both the red-eye reduction function and the AF-assist beam to [Off] in the Shooting menu.

## Reviewing an Image Right after Shooting

**Mode Dial** AUTO P Tv Av M SCN

After a photo is taken, the image displays on the LCD monitor for two seconds. In addition, the image will keep on displaying regardless of the review duration setting if one of the following operations is performed.

- **Keeping the shutter button fully pressed**
- **Pressing the SET button while the image is displayed**

Press the shutter button halfway again to stop displaying it.

You can perform the following while images are displayed.

- *Erasing Images Individually* (p. 63)
- Display the setting details of the image (p. 30).
- *Magnifying Images* (p. 58) (When pressing the **SET** button and displaying images)

## Changing the Image Display Duration

The length of time images are displayed after a photo has been taken can be changed from 2 seconds to 10 seconds or turned off.

**1 Press the MENU button.**

- The [ (Rec.)] menu appears.

**2 Select (Review) using ▲ or ▼.**

**3 Select a duration using ◀ or ▶ and press the MENU button.**




- With the [Off] option, the image will not automatically display.
- With the [2 sec.] to [10 sec.] options, the image will appear for the time selected.
- You can continue to display the image as long as the shutter button is held fully pressed regardless of the Review setting.
- Another picture can be taken even while the last is displayed.

# Using the Mode Dial (Image Zone)

Settings fitting the shooting conditions of your subject can easily be set using the mode dial.

### Portrait

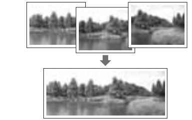


Use this mode when you want the subject to appear sharp and the background to blur.

### Movie

Use this mode to shoot movie clips. Shooting and sound recording starts simultaneously (p. 55).

### Stitch Assist

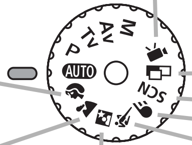


Use this mode when taking shots that you want to combine into a panorama (p. 48).

### SCN Special Scene



Select from 6 scene modes to shoot with the most appropriate settings for the scene (p. 51).




### Landscape



Use this mode to shoot spacious landscape scenes.

### Night Scene



Use this mode to capture human subjects against the backdrop of an evening sky or night scene. The subject is illuminated with light from the flash while the backdrop is captured at a slow shutter speed.

### Fast Shutter



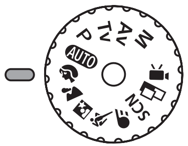
Use this mode to shoot fast moving objects.

### Slow Shutter



Use this mode to shoot moving objects to make them appear blurred, such as river rapids.

**1 Turn the mode dial and set the icon of the function you wish to use to .**




- Shooting procedures are the same as for the AUTO mode (p. 33).

> **and Shooting Modes**
> Always use a tripod to prevent camera shake.

- See page 151 for settings that can be changed in this mode.
- **Tips for each function:**

**Portrait Mode**
- To best achieve the effect of the background gradually fading, compose the image so that the upper half of the subject's body fills most of the viewfinder or LCD monitor.
- The background gets increasingly indistinct the more you adjust the focal length toward telephoto.

**Landscape Mode**
- The icon (camera shake warning) may appear on the LCD monitor since slower shutter speeds are frequently used in this mode. If this happens, affix the camera to a tripod.

**Night Scene Mode**
- The shutter speed slows down. Even if you use the flash, tell your subjects not to move for a few moments.
- Using the mode in daylight will produce an effect similar to that of the AUTO mode.

- **Fast Shutter**
  - Noise in the recorded image may increase if you shoot dark subjects.

## Changing the Resolution and Compression

| Mode Dial | AUTO P Tv Av M [scene icons] SCN [Postcard Print]* [Movie]* |
|---|---|
| *The Postcard Print mode is not available in [Postcard Print] and [Movie]. | |

You can change the resolution and compression (excluding movies) settings to suit the purpose of the image you are about to shoot.

| Resolution | | | Purpose |
|---|---|---|---|
| **L (Large)** | 2048 x 1536 pixels | High ↑ | ● Print up to A4 size* 210 x 297 mm (8.3 x 11.7 in.) prints<br>● Print up to letter size* 216 x 279 mm (8.5 x 11 in.) prints |
| **M1 (Medium 1)** | 1600 x 1200 pixels | | ● Print postcard size 148 x 100 mm (6 x 4 in.) prints<br>● Print L-size 119 x 89 mm (4.7 x 3.5 in.) prints |
| **M2 (Medium 2)** | 1024 x 768 pixels | ↓ | ● Print credit card size 86 x 54 mm (3.4 x 2.1 in.) prints |
| **S (Small)** | 640 x 480 pixels | Low | ● Send images as e-mail attachments<br>● Shoot more images |

* Paper sizes vary according to region.

| | |
|---|---|
| [icon] **or** [icon] | ● The resolution is set to **M1** (1600 x 1200) and the compression is set to [Fine] (Fine).<br>● See page 53 for Postcard Print mode information. |

| Compression | | | Purpose |
|---|---|---|---|
| | Superfine | High Quality | Shoot higher quality images |
| | Fine | ↕ | Shoot normal quality images |
| | Normal | Normal | Shoot more images |

Movies can be shot with the following resolutions.

| Resolution | |
|---|---|
| 640 | 640 x 480 pixels |
| 320 | 320 x 240 pixels |
| 160 | 160 x 120 pixels |

### 1 Press the FUNC. button.

## 2 Select L* using ▲ or ▼.

* The current setting is displayed.




## 3 Select the resolution or compression you wish to set using ◀ or ▶.

Excluding




Number of recordable images (Only displayed when the resolution, compression or file format is selected)

## 4 Press the SET button.

## 5 Select the compression you wish to set using ◀ or ▶.




- You can shoot the image right after selecting settings by pressing the shutter button. This screen will appear again, once the image is shot.

## 6 Press the FUNC. button.

- *Image File Size (Estimated)* (p. 141)
- *CF Cards and Estimated Capacities (Recordable Images)* (p. 140)

## Using the Flash

| Mode Dial | AUTO P Tv Av M SCN* |
|---|---|
| * In (Fireworks) mode, the flash is prohibited. | |

Use the flash according to the guidelines below.

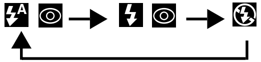
| | | |
|---|---|---|
| | **Auto with red-eye reduction** | The flash fires automatically as required by the lighting level, and the red-eye reduction lamp fires each time the main flash fires. |
| | **Auto** | The flash fires automatically as required by the lighting level. |
| | **Flash on with red-eye reduction** | The red-eye reduction lamp and the flash always fire. |
| | **Flash on** | The flash always fires. |
| | **Flash off** | The flash does not fire. |

### 1 Press the button to switch between flash modes.

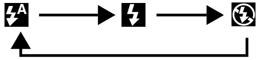



- The selected flash mode appears on the LCD monitor.
- You can switch between settings by pressing the button.

**When the red-eye reduction function is on**



**When the red-eye reduction function is off**



- This operation may not work in certain Shooting modes (p. 151).

### 2 Shoot the image.

- The flash will fire if the indicator beside the viewfinder lights orange when the shutter button is pressed halfway. (Does not fire in .)

- Shooting procedures are the same as for the AUTO mode (p. 33).

When shooting with a high ISO sensitivity and using the flash, there is more of a chance of overexposure the closer you are to the subject.

- When shooting in any mode other than M mode, the flash fires with automatic adjustments.
- The flash fires twice. A pre-flash will fire and will be followed by the main flash. The pre-flash is used by the camera to obtain the subject's exposure data so that the main flash can be set to the optimal intensity for the shot.
- In M mode, the flash fires with the manually set adjustments.
- The fastest shutter speed for flash synchronization is 1/500 second. The camera automatically resets the shutter speed to 1/500 second if a faster speed is selected.
- In M mode, the [Flash Output] option can be changed (p. 86).
- Shots cannot be taken while the flash is charging.
- The flash may take up to approximately 10 seconds to charge in some cases. Actual times will vary according to usage and the battery charge.
- The flash setting is saved when the camera is turned off in the P, Tv, Av and M Shooting modes.

## Setting the Red-eye Reduction Function

The red-eye reduction lamp fires when the flash is used in dark areas. This reduces light reflecting back from the eyes and making them appear red.

**1 In the [ (Rec.)] menu, set (Red-eye) to [On].**



- appears on the LCD monitor.

- The red-eye reduction function cannot be set when the Special Scene mode (p. 51) is set to (Fireworks).
- **Red-Eye Reduction**
  When shooting with the red-eye reduction function, the subjects must look right at the red-eye reduction lamp for this mode to be effective. Try asking them to look directly at the lamp. Even better results can be obtained by shooting with the lens set to a wide angle, increasing the lighting in indoor settings or approaching closer to the subject.

## Macro Mode

| Mode Dial | AUTO P Tv Av M SCN* |
|---|---|
| * Macro mode is not available in mode. | |

The image will be shot in macro mode when the distance between the lens and the subject is in the range of 5 to 46 cm (2.0 in. to 1.5 ft.) at wide angle end and 26 to 46 cm (10 in. to 1.5 ft.) at telephoto end.
Use to take close-up shots of flowers or small objects.

**1** **Press the DISP. button to turn the LCD monitor on.**

**2** **Press the button.**




- The icon appears on the LCD monitor.
- Pressing the button again cancels the macro mode.

**3** **Shoot the image.**

- The indicator beside the viewfinder will light yellow when the shutter button is pressed halfway.
- Shooting procedures are the same as for the AUTO Mode (p. 33).

> - Always use the LCD monitor to compose images in macro mode. Shooting with the viewfinder is possible, though, part of the image may not appear in the final shot (p. 35).
> - When the lens is zoomed out to the wide angle end, the recordable area is approx. 55 × 41 mm (2.2 in. × 1.6 in.)*1, and at telephoto end, it is 92 × 69 mm (3.6 in. × 2.7 in.).*2
>   When the zoom position is located between the telephoto end and the wide angle end, the distance between the front of the lens and the subject will be the same as the telephoto end.
> - The exposure may not be optimal when the flash is used in macro mode.
>
> *1 Closest focal distance.
> *2 Maximum optical telephoto setting.

## Self-timer

**Mode Dial** AUTO P Tv Av M [icon] [icon] [icon] [icon] [icon] SCN [icon] [icon]

### 1 Press the FUNC. button and select [icon]* (Drive Mode) using ▲ or ▼.




* The current setting is displayed.

### 2 Select [icon] or [icon] using ◀ or ▶ and press the FUNC. button.

- When [icon] is selected, the shutter release will be delayed for 10 seconds, and when [icon] is selected, the shutter release will be delayed for 2 seconds, after you press the shutter button.

### 3 Shoot the image.

- When [icon] is selected, the self-timer lamp starts blinking when the shutter button is pressed all the way. The self-timer sounds and the blinking gets faster two seconds before the shutter activates.

- When is selected, the self-timer lamp blinks fast from the beginning. The shutter activates in two seconds.
- Shooting procedures are the same as for the AUTO mode (p. 33).

> You can change the self-timer sound by changing the setting in [Self-timer Sound] in the [ (My Camera)] menu (p. 72).

## Digital Zoom

**Mode Dial** AUTO P Tv Av M SCN

Images can be zoomed with the combined optical and digital zoom functions as follows.

- 3.8x, 4.8x, 6.0x, 7.4x, and 10x

**1** **Press the DISP. button to turn the LCD monitor on.**

**2** **In the [ (Rec.)] menu, select (Digital Zoom).**




- See *Selecting Menus and Settings* (p. 65).

**3** **Select [On] using ◀ or ▶ and press the MENU button.**

**4** **Press the zoom lever toward .**

- The lens will zoom to the maximum optical telephoto setting and stop. Release the lever

and press it toward [T] again to further zoom the image digitally.

- Press the lever toward [W] to zoom back out.




The combined magnifications of the optical zoom and digital zoom are displayed.

**5** **Shoot the image.**

- Shooting procedures are the same as for the AUTO mode (p. 33).

The digital zoom cannot be used when the LCD monitor is off.

- Images become coarser the more they are digitally zoomed.
- Since camera shake may become a factor when using the digital zoom, the use of a tripod is recommended.

## Continuous Shooting

**Mode Dial** P Tv Av M SCN

Continuous shooting is available when the shutter button is fully pressed.

**1** **Press the FUNC. button.**

**2** **Select □* (Drive Mode) using ▲ or ▼.**

* The current setting is displayed.




**3** **Select ⧉ using ◀ or ▶ and press the FUNC. button.**

**4** **Press the shutter button halfway to lock the focus.**

### 5 Press the shutter button all the way to shoot.

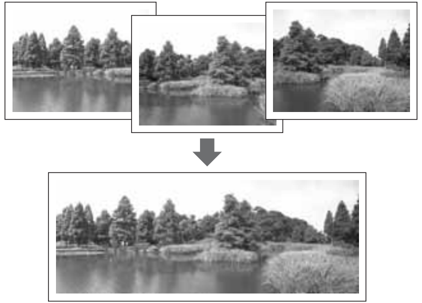
- Shooting will stop when the shutter button is released.
- The continuous shooting speed is approx. 2.2 frames per second (Large/fine, LCD monitor off. These figures reflect Canon's testing standard. The actual figures will vary according to the subject and shooting conditions.).

> - The interval between frames may lengthen somewhat when the internal memory becomes full.
> - The flash can be used, but the interval between images will lengthen to accommodate the flash recharge time.

## Shooting Panoramic Images (Stitch Assist)

**Mode Dial**

Use this mode when taking shots that you want to combine into a panorama. To create the panorama itself, you must stitch the images together using your computer.



> To create the panorama with your computer, use the PhotoStitch software that came with your camera.

## Framing a Subject

The PhotoStitch program detects the overlapping portions of adjoining images and merges them. When shooting, try to include a distinctive item (landmark) in the overlapping portions.





- Compose each frame so that it overlaps 30 to 50 % of the adjoining image. Try to keep the vertical misalignment to within 10 % of the image height.
- Do not include moving items in the overlap.
- Do not try to stitch images that include both distant and close items. Objects may appear warped or doubled up.
- Make the brightness in each image consistent. The final image will appear unnatural if the difference in brightness is too great.
- For good results, pan (swivel) the camera to take successive shots.
- To shoot close-ups, slide the camera over the subject, keeping it parallel as you move.

## Shooting

### 1 Turn the Shooting mode dial to .

- The LCD monitor will turn on.

### 2 Select the shooting sequence using ◀ or ▶ and press the SET button.



- The shooting sequence is set.

- You can also press the shutter button directly to shoot without pressing the **SET** button.

### 3 Shoot the first image.

- The exposure and white balance settings are set and locked with the first image.

### 4 Compose and shoot the second image so that it overlaps the first.



Sequence

- Minor discrepancies in the overlap can be corrected with the software.
- An image can be retaken. Press ◀ or ▶ to return to that frame.

### 5 Use the same procedures to shoot the remaining frames.

- A maximum of 26 images can be recorded.

### 6 Press the SET button after the last shot.

- A custom white balance setting (p. 82) cannot be set in mode. To use a custom white balance setting, first set it in another Shooting mode.
- The settings in place for the first image are locked in and cannot be changed for subsequent shots.
- A TV cannot be used as the monitor for shooting in this mode.

See page 151 for settings that can be changed in this mode.

## SCN Special Scene Mode

**Mode Dial** SCN

By simply selecting one of the following 6 modes, you can shoot the image with the most appropriate settings for the scene.

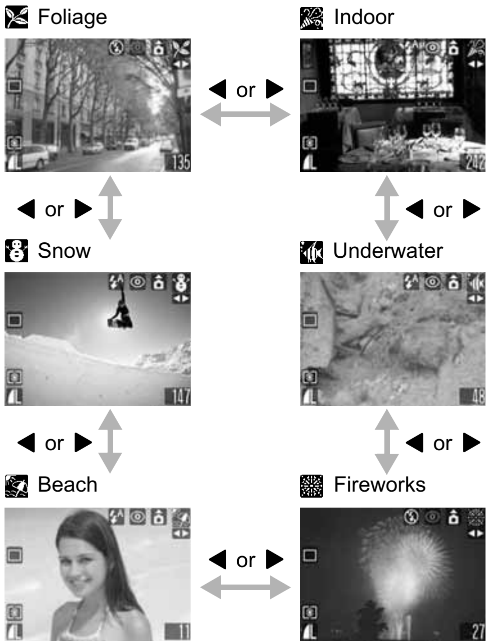
| | |
|---|---|
| **Foliage** | Appropriate for shooting beautiful images with flowers, leaves or trees. |
| **Snow** | Appropriate for shooting scenes such as snowy mountains while preventing dark subjects and bluish backgrounds. |
| **Beach** | Appropriate for shooting scenes by the sea while preventing dark subjects and enhancing the blue of the sea. |
| **Fireworks** | Appropriate for shooting fireworks. |
| **Underwater** | Appropriate for shooting images with the Waterproof Case WP-DC30 (sold separately). This mode yields image data with less effects of minute sand, dirt or other particles underwater. |
| **Indoor** | Prevents camera shake and maintains the subject's true color when shooting under fluorescent or tungsten lighting. |

### 1 Turn the mode dial to SCN (Special Scene mode).

- The current Scene mode screen is displayed.

### 2 Select the scene you wish to shoot using ◀ or ▶ and shoot the image.

- The name of the Scene mode is displayed for six seconds each time you change the mode.
- Shooting procedures are the same as for the AUTO mode (p. 33) excluding .
- For the shooting procedures of , see the *Waterproof Case User Guide* included with the Waterproof Case WP-DC30 (sold separately).




- In mode, the shutter speed slows down. Use a tripod to avoid camera shake.
- In and modes, the ISO speed may increase and cause noise in the image.

- See page 151 for settings that can be changed in this mode.
- Results may vary depending on the subject.
- When shooting images underwater, always turn the power off before inserting the camera into the waterproof case (sold separately).

## Postcard Print Mode

Mode Dial AUTO P Tv Av M SCN

You can shoot images with settings appropriate for postcard size printing.

* When printing standard image data to postcard size, sometimes the top, bottom and sides may not get printed. By shooting images in the Postcard Print mode, you can check the printing area (vertical/horizontal ratio of 3:2) beforehand. In addition, the resolution locks to M1 (1600 x 1200) and the compression locks to the (Fine) setting, rendering smaller file sizes.

### 1 Press the FUNC. button.

### 2 Select L* using ▲ or ▼.

* The current setting is displayed.




### 3 Select (Postcard) using ◀ or ▶.




- You can shoot the image right after selecting settings by pressing the shutter button. The menu displays again after the shot, allowing you to change the settings easily.

### 4 Press the FUNC. button.

### 5 Shoot the image.



- When you press the shutter button halfway, the area that will not get printed grays out.
- Shooting procedures are the same as for the AUTO mode (p. 33).

Selecting cancels the [On] setting of the digital zoom.

- Some settings are not available with certain Shooting modes. Please refer to *Functions Available in Each Shooting Mode* (p. 151).
- When [Date Stamp] (p. 54) is set to [Date] or [Date & Time], appears on images in step 2 and 3.
- For printing instructions, refer to the *Direct Print User Guide*.

## Embedding the Date in the Image Data

You can embed the date on image data when  is selected. The date will be printed on your images even if it has not been set at the computer or printer.

- Ensure that the camera's date/time is set beforehand (p. 22).

### 1 Check that  appears on the LCD monitor.

### 2 Select  (Date Stamp) in the [ (Rec.)] menu.




- See *Selecting Menus and Settings* (p. 65).

### 3 Select [Off], [Date] or [Date & Time] using ◀ or ▶.




- See *Setting the Date/Time* (p. 22).

### 4 Press the MENU button.

### 5 Shoot the image.

- Shooting procedures are the same as for the AUTO mode (p. 33).

> When using a CP printer, part of the date may not get printed if the credit card size print (54 mm x 84 mm) is selected.

> The Date Stamp cannot be deleted from the image data once it has been set.

## Movie Mode

**Mode Dial**

Use this mode to shoot movie clips. The resolution can be set to either [640 (640 × 480)], [320 (320 × 240)] or [160 (160 × 120)] (p. 40)

### 1 Turn the Shooting mode dial to movie.

- The LCD monitor turns on and displays the maximum recording time (in seconds).

### 2 Press the shutter button all the way.

- Shooting and sound recording starts simultaneously.
- During the shooting a red circle appears in the upper right of the LCD monitor.

### 3 Press the shutter button all the way to stop recording the movie.

- The maximum length of individual movie clips (15 frames/second) is about 30 seconds* at the 640 setting, 3 minutes at the 320 setting and about 3 minutes* at the 160 setting.

* Using the following CF cards:
  - Supplied FC-32MH CF Card
  - Separately sold Canon FC-256MH or FC-512MSH CF card (not sold in some regions)

  These times may vary with the subject and shooting conditions. Recording will automatically stop when the maximum is reached or when the CF cards runs out of free capacity.

- You are recommended to use a CF card that has been formatted in your camera to shoot movies (p. 21). The card supplied with the camera may be used without further formatting.
- The recording time may not display properly during shooting or filming may stop unexpectedly with the following types of CF cards.
  - Slow recording cards
  - Cards formatted on a different camera or a computer
  - Cards which have had images recorded and erased repeatedly

  Although recording time may not display properly during shooting, the movie will

be recorded correctly on the CF card. Recording time will display properly if you format the CF card in this camera (excluding slow recording CF cards).

- Be careful not to touch the microphone while shooting.
- The AE, AF, white balance and zoom settings are set and locked to the settings of the first frame.
- The indicator on the left side of the viewfinder blinks green after a shot. You cannot shoot again until it stops blinking.

- See page 151 for settings that can be changed in this mode.
- Sound is recorded monaurally.
- There is no shutter sound in movie mode.
- QuickTime 3.0 or higher is required to playback movie files (AVI / Motion JPEG) on a computer. (QuickTime (for Windows) is bundled on the supplied Digital Camera Solution Disk. On the Macintosh platform, QuickTime 3.0 or later is generally bundled with Mac OS 8.5 or later operating system.)

## Displaying Images Individually (Single Image Playback)

You can view the recorded images on the LCD monitor.



**1 Slide the mode switch to ▶.**

- The last recorded image appears (single image playback).

**2 Move between images using ◀ or ▶.**

- Use ◀ to move to the previous image and ▶ to move to the next. Holding ◀ or ▶ moves more rapidly between images, but the images will not appear as clearly.

> You may not be able to play back images that have been shot with another camera or edited on a computer with other software applications.

- Press the **DISP**. button to show the data for the displayed image (p. 30).
- Press the 🗑 button to quickly delete the displayed image (p. 63).

## Magnifying Images

Images can be magnified up to approximately 10 times in single image playback.

**1 Slide the mode switch to ▶.**

**2 Press the zoom lever toward 🔍.**



Approximate position

- You can move around the magnified image using ▲, ▼, ◀ or ▶.
- Hold the **SET** button down and press the zoom lever toward 🔍 to cycle through each setting, approximately 2.5 times, to approximately 5 times and 10 times.

### Canceling the Magnified Display

**1 Press the zoom lever toward ▦.**

Movie frames and index playback images cannot be magnified.

You can magnify an image while it is displayed on the LCD monitor in Shooting mode immediately after the image is shot (p. 36).

## ▦Viewing Images in Sets of Nine (Index Playback)

Up to 9 images can be viewed at once in index playback.

**1 Slide the mode switch to ▶.**

**2 Press the zoom lever toward ▦.**

- 9 images appear at once (index playback).

**3** **Change the image selection using ▲, ▼, ◀ or ▶.**




**4** **Press the zoom lever toward 🔍.**

- Index playback cancels and the display reverts to single image playback.

> Press the **DISP.** button to show the information for the displayed image (p. 30).

## Jumping Between Images

The display can be advanced or set back 9 images in index playback.

**1** **Press the zoom lever once toward ▦ while in index playback (p. 58).**

- The Jump bar appears.

**2** **The displayed images change.**

- Jump 9 images behind or ahead using ◀ or ▶.
- Pressing ◀ or ▶ while holding the **SET** button displays the first or last 9 images.




**3** **Press the zoom lever toward 🔍.**

- The jump bar disappears and the camera returns to index playback.
- If you press the zoom lever once more toward 🔍, the camera returns to single image playback.

# Viewing/Editing Movies

## Viewing Movies

You can playback the images shot in 🎥 mode.

**1 Slide the mode switch to ▶.**

- Movies cannot be viewed in index playback.

**2 Select a movie using ◀ or ▶ and press the SET button.**

- A movie displays with the (SET) 🎥 icon on it.
- The movie playback panel appears.

**3 Select ▶ (Play) using ◀ or ▶ and press the SET button.**




Movie Playback Panel
Volume

- The movie images and sound will play.
- You can adjust the volume using ▲ or ▼.
- When a movie has finished playing, it will display the last frame.

  If the **SET** button is pressed in this state, the camera will revert to the movie playback panel. If the **SET** button is pressed again, the movie will start playing from the first frame.

### Pausing and Resuming Play

- Press the **SET** button to pause the movie. Press it again to resume.

### Fast Forwarding/Rewinding

- Select one of the following operations using ◀ or ▶ and press the **SET** button.
- ↩ **(Exit):** Return to single image playback
- ⏮ **(First Frame):** Display the first frame
- ◀II **(Previous Frame):** Return to the previous frame (Rewinds if the **SET** button is held down)
- II▶ **(Next Frame):** Proceed on the next frame (Fast forwards if the **SET** button is held down)
- ⏭ **(Last Frame):** Display the last frame

> You may experience frame dropping and audio breakup when playing back a movie on a computer with insufficient system resources.

> - The volume at which movies play back can also be adjusted in the Set up menu (p. 69).
> - If [Mute] (p. 68) is set to [On] in the Set up menu, the volume setting returns to 0 but it can be adjusted using ▲ or ▼.
> - Please adjust the audio sound level on the TV when viewing movie files on a TV.

## Editing Movies

You can delete unwanted portions from the first or second half of a movie clip.

**1 Select the movie you wish to edit and press the SET button.**

- See *Viewing Movies* (p. 60).

**2 Select (Edit) using ◀ or ▶ and press the SET button.**

- The movie editing panel and the movie editing bar appear.

**3 Select an editing method using ▲ or ▼.**




- **(Cut beginning):** Deletes frames in the first half of the movie.
- **(Cut End):** Deletes frames in the second half of the movie.
- **(Exit):** Reverts to the movie playback panel.

**4 Select the range you wish to edit using ◀ or ▶.**



**5 Select (Play) using ▲ or ▼ and press the SET button.**

- The temporarily edited movie will start playing.
- The movie will stop if you press the **SET** button while it is playing.

**6 Select [Save icon] (Save) using ▲ or ▼ and press the SET button.**




- When [Return icon] is selected, the edited movie is not saved and the camera reverts to playback.

**7 Select [Overwrite] or [New File] using ◀ or ▶ and press the SET button.**




- **[Overwrite] :**
  Saves the edited movie under the same file name as the original movie. The original data is deleted.
- **[New File] :**
  Saves the edited movie under a new file name. The original data is not deleted.
- When there is not enough space left on the CF card, only the overwrite function is available. If this happens, a small ▲ appears on the counter of the movie editing bar.

- Protected movies cannot be edited.
- It may take approximately 3 minutes to save an edited movie. If the batteries run out of charge partway through, edited movie clips cannot be saved. When editing movies, use fully charged NiMH batteries, unused alkaline batteries or the separately sold AC Adapter Kit ACK600 (p. 130).

Movies with an original length of 1 second or more can be edited in 1-frame units.

Please note that erased images cannot be recovered. Exercise caution before erasing a file.

## Erasing Images Individually

**1 Slide the mode switch to [▶].**

**2 Select the image you wish to erase using ◀ or ▶ and press the [erase] button.**




- A confirmation screen appears.

**3 Select [Erase] using ◀ or ▶ and press the SET button.**

- To cancel instead of erasing, select [Cancel] and press the **SET** button.

Protected images cannot be erased with the erase function (p. 94).

## Erasing All Images

**1 In the [▶ (Play)] menu, select [erase all] (Erase all) and press the SET button.**




- A confirmation screen appears.

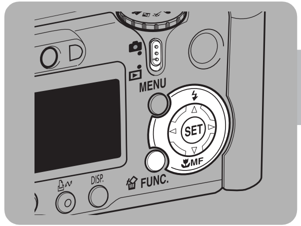
**2 Select [OK] using ◀ or ▶ and press the SET button.**

- To cancel instead of erasing, select [Cancel] and press the **SET** button.

- Protected images cannot be erased with the erase function (p. 94).
- The [Erase all] function erases all the image data recorded on the CF card.
- You should format the CF card when you want to erase not only image data but also all the data contained on the card (p. 21).

## Selecting Menus and Settings

### Selecting Settings with the FUNC. Button (Shooting Mode Only)




**2.** FUNC.

**1** Slide the mode switch to 📷.

**2** Press the FUNC. button.

**3** Select a FUNC. menu option using ▲ or ▼ and select setting contents using ◀ or ▶.

**4** Press the FUNC. button.

**5** Shoot the image.

**3.** Select a **FUNC.** menu option using ▲ or ▼ and select setting contents using ◀ or ▶.

Exposure Compensation (±0) (p. 80)




White Balance(AWB) (p. 81)




Drive Mode (□) (p. 47)




Photo Effect (OFF) (p. 85)




ISO Speed (ISO 50) (p. 84)




Light Metering (◙) (p. 79)




Flash Output (⚡) (p. 86)




Resolution (L) (p. 40)




Resolution (320) (Movies) (p. 40)




Compression (◢) (p. 40)

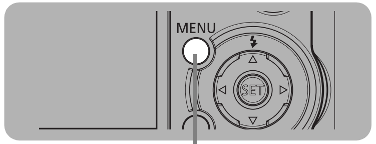



Items in ( ) show default settings.

**4.** FUNC.

**5.** Shoot the image

## Selecting Settings with the MENU Button




Shooting Mode  Playback Mode

**1 Press the MENU button.**

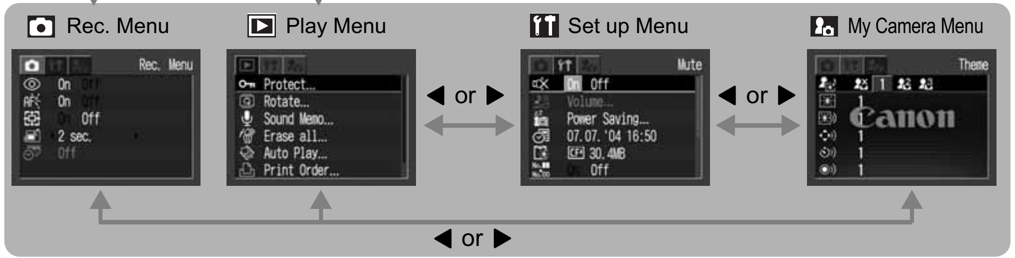
**2 Use ◀ or ▶ to switch between menus.**

- You can also switch between menus using the zoom lever button.

**3 Use ▲ or ▼ to select a menu item.**

**4 Use ◀ or ▶ to select the settings you wish to set.**

**5 Press the MENU button.**




- For items with [...] next to them, push the **SET** button and carry out the settings from the next displayed menu. Once the settings are complete, press the **SET** button again and confirm these settings.
- In the Shooting mode, you can also close the menu by pressing the shutter button halfway.

- Some menu items may not be available for selection according to the Shooting mode (p. 151).
- You can apply a desired image and sound to and in the My Camera menu. For details, see *Registering the My Camera Settings* (p. 116) or the *Software Starter Guide*.
- The default of all the settings changed by the menu and button operations except for [Date/Time], [Language] and [Video System] can be restored all at once (p. 73).

# Menu Settings and Default Settings

## Rec. Menu

| Menu Item | Setting Content | Reference Page |
|---|---|---|
| **AiAF** | Sets the AiAF to on (the camera automatically selects the AF frame when taking a picture) or off (AF frame is set to the center frame).<br>**• On*/Off** | 78 |
| **Red-eye** | Sets whether or not the red-eye reduction lamp fires.<br>**• On*/Off** | 42 |
| **AF-assist Beam** | Sets the output of the AF-assist beam according to shooting conditions when using the auto focus.<br>**• On*/Off** | 36 |
| **Digital Zoom** | Sets whether or not the digital zoom combines with the optical zoom to zoom images.<br>**• On/Off*** | 46 |
| **Review** | Sets the duration images display on the LCD monitor after the shutter button is released.<br>**• Off and 2* to 10 sec.** | 36 |
| **Date Stamp** | Sets the date format to be embedded in image data when is selected.<br>**• Off*/Date/Date & Time** | 54 |

* Default setting

## Play Menu

| Item | Setting Content | Reference Page |
|---|---|---|
| **Protect** | Protects images from accidental erasure. | 94 |
| **Rotate** | Rotates images 90 or 270 degrees clockwise in the display. | 91 |
| **Sound Memo** | Adds sound memos to images. | 92 |
| **Erase All** | Erases all images from a CF card (excluding protected images). | 63 |
| **Auto Play** | Plays images automatically one after the other. | 93 |
| **Print Order** | Sets which images and how many copies will be printed on a printer with the direct print function or at a photo lab service. | 98 |
| **Transfer Order** | Sets in advance the images that will be transferred to a computer by the camera. | 102 |

## Set up Menu

| Item | Setting Content | Reference Page |
|---|---|---|
| **Mute** | Set [On] to mute the start-up sound, operation sound, self-timer sound and shutter sound all at once. For details, see *How the Mute setting in the [ (Set up)] menu and each sound setting in the [ (My Camera)] menu are related* on page 72.<br>**• On/Off ***<br>Note that the error warning signal beeps even when the Mute setting is [On]. | - |

* Default setting

| Item | Setting Content | Reference Page |
|---|---|---|
| Volume | Adjusts the volume of the start-up sound, operation sound, self-timer sound, shutter sound, or playback sound. The volume cannot be adjusted if [Mute] is set to [On].<br>• (Off) • (3)<br>• (1) • (4)<br>• (2)* • (5) | - |
| | **Shutter Volume**<br>Adjusts the Shutter Sound volume when the shutter button is pressed all the way. There is no shutter sound in Movie mode. | 34 |
| | **Playback Volume**<br>Adjusts the sound volume when a sound memo or movie is played. | 60, 92 |
| | **Start-up Volume**<br>Adjusts the Start-up Sound volume when the camera powers up. | 25 |
| | **Operation Volume**<br>Adjusts the Operation Sound volume when any button except the shutter button is operated. | - |
| | **Self-timer Volume**<br>Adjusts the volume of the Self-timer Sound heard from 2 seconds prior to the shot until the actual shot. | 45 |

* Default setting

| Item | Setting Content | Reference Page |
| --- | --- | --- |
| **Power Saving** | The Auto Power Down and Display Off settings can be set by pressing the **SET** button.<br>**Auto Power Down**<br>Sets whether or not the camera automatically powers down after a specified period of time elapses without camera operation.<br>**• On* /Off** | 25 |
| | **Display Off**<br>Specifies a period of time before the LCD monitor turns off when no camera operation is performed.<br>**• 10 sec. • 1 min.***<br>**• 20 sec. • 2 min.**<br>**• 30 sec. • 3 min.** | 26 |
| **Date/Time** | Sets the date, time and date format. | 22 |
| **Format** | Formats (initializes) a CF card. | 21 |
| **File No. Reset** | Sets how file numbers are assigned to images.<br>**• On/Off *** | 114 |
| **Auto Rotate** | Sets whether or not images shot with the camera held vertically are automatically rotated in the display.<br>**• On*/Off** | 89 |

* Default setting

| Item | Setting Content | Reference Page |
|---|---|---|
| **Distance Units** | Sets the format of the MF indicator's displayed distance units.<br>• **m/cm***<br>• **ft/in** | 89 |
| **Language** | Sets the language used in the menus and messages on the LCD monitor.<br>• English* • Italiano<br>• Deutsch • Norsk<br>• Français • Svenska<br>• Nederlands • Español<br>• Dansk • Chinese<br>• Suomi • Japanese<br>You can change the language during image playback by holding the **SET** button and pressing the **MENU** button. | 24 |
| **Video System** | Sets the video output signal standard.<br>• **NTSC**<br>• **PAL** | 113 |

* Default setting

## Customizing the Camera (My Camera Settings)

You can select the theme, start-up image and sound, shutter sound, operation sound and self-timer sound used on this camera. These are called My Camera settings. You can also customize the and options for each item with images from the CF card and newly recorded sounds or by using the supplied software. See the *Software Starter Guide* for details.

| Item/Menu Screen | Setting Content | Reference Page |
|---|---|---|
| **Theme** | Selects a common theme for the start-up image, startup sound, shutter sound, operation sound, and self-timer sound.*1 | 115 |
| **Start-up Image** | Sets Start-up image when you turn on the camera. | 115 |
| **Start-up Sound** | Sets the start-up sound when you turn on the camera.*1 | 115 |
| **Operation Sound** | Sets the sound when any button other than the shutter button is operated.*1 | 115 |
| **Self-timer Sound** | Sets the sound informing you that the photo will be taken in 2 seconds.*1 | 115 |
| **Shutter Sound** | Sets the shutter sound when you press the shutter button. There is no shutter sound in Movie mode.*1 | 115 |
| **My Camera menu settings content** | (Off)/ 1 */ / | 115 |

* Default setting

*1 **How the [Mute] setting in the [(Set up)] menu and each sound setting in the [(My Camera)] menu are related**
To turn off the start-up sound, the shutter sound, operation sound, and self-timer sound all at once, set [Mute] in the [(Set up)] menu to [On]. This setting overrides each setting for those sounds. Note that the error warning signal beeps even when the [Mute] setting is [On].

## Resetting the Settings to Default

You can reset the menu and button operation settings to default.

### 1 Turn on the camera.

- Can be performed from Shooting or Playback mode.

### 2 Press the MENU button for longer than 5 seconds.

- The message “Reset settings to default?” appears on the LCD monitor.

### 3 Press ◀ or ▶ to select [OK], and press the SET button.




- The screen on the right appears while resetting. The normal screen resumes when resetting is complete.
- To cancel resetting, select [Cancel] instead of [OK].

- The following settings do not reset to default.
  - Date/Time, Language and Video System in the [ (Set up)] menu (p. 68, 69)
  - The custom white balance (p. 82)
  - Newly registered My Camera settings (p. 115)
- When the camera is connected to a computer or a printer, this operation does not work.

## Using the Mode Dial (Creative Zone)

**Mode Dial** P Tv Av M

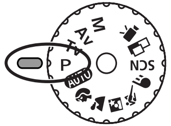
You can freely select camera settings such as the shutter speed and aperture value to suit your shooting purposes.
After settings are made, shooting procedures are the same as for the AUTO mode (p. 33).

See *Functions Available in Each Shooting Mode* (p. 151) at the end of this manual to find out which settings can be changed in which shooting modes.

### How to Use the Mode Dial

**1 Check that the camera is in Shooting mode.**

**2 Turn the mode dial and set the icon of the function you wish to use to ⬭.**




- If the LCD monitor is on, the shutter speed and aperture value appear automatically.




- **Tv**, **Av** and **M** mode settings are made the following way.

  **Tv**: Select a shutter speed using ◀ or ▶.
  **Av**: Select an aperture value using ◀ or ▶.
  **M**: Select a shutter speed using ◀ or ▶, press the **SET** button and select an aperture value using ◀ or ▶.

- The correct exposure has been set if the shutter speed and aperture value show in white on the LCD monitor.

**3 Shoot the image.**

## P Program AE

Use the program AE mode to have the camera automatically set the shutter speed and aperture value to match the brightness of the scene.

- The shutter speed and aperture value will show in red on the LCD monitor when the correct exposure cannot be obtained. Use the following methods to obtain the correct exposure and make them appear in white.
  - Use the flash
  - Change the ISO speed
  - Change the light metering mode

**Differences between the P and AUTO Modes.**

- The following settings can be adjusted in P mode, but not in AUTO mode.

| | |
|---|---|
| • Exposure Compensation | • White Balance |
| • ISO Speed | • Flash (Flash on) |
| • Photo Effects | • Continuous Shooting |
| • Light Metering Mode | • Manual Focus |
| • Autofocus | |

- For the correlation between aperture value and shutter speed, see page 76.

## Tv Setting the Shutter Speed

When you set the shutter speed in the shutter speed-priority AE mode, the camera automatically selects an aperture value to match the brightness.
Faster shutter speeds allow you to catch an instantaneous image of a moving subject while slower speeds create a flowing effect and allow you to shoot without a flash in dark areas.

- If the aperture value shows in red, the image is underexposed (insufficient light) or overexposed (too much light). Adjust the shutter speed using ◀ or ▶ until the aperture value display turns to white.
- The nature of CCD image sensors is such that noise in the recorded image increases at slow shutter speeds. This camera, however, applies special processing to images shot at shutter speeds slower than 1.3 seconds to eliminate the noise, thereby producing high-quality images. Nevertheless, a certain amount of processing time may be required before the next image can be shot.

- Please note that camera shake becomes a factor at low shutter speeds. If the camera shake warning appears in the center of the LCD monitor, secure the camera to a tripod before shooting.
- The aperture value and shutter speed change according to the zoom state as follows.

| | Aperture | Shutter Speed (seconds) |
|---|---|---|
| Wide Angle | F2.8 | to 1/1250 |
| | F3.2 - 4.0 | to 1/1600 |
| | F4.5 - 8.0 | to 1/2000 |
| Telephoto | F4.8 | to 1/1250 |
| | F5.6 - 7.1 | to 1/1600 |
| | F8.0 | to 1/2000 |

- The fastest shutter speed for flash synchronization is 1/500 second. The camera automatically resets the shutter speed to 1/500 second if a faster speed is selected.

**Shutter Speed Display**

The numbers in the table below indicate the shutter speed in seconds. For slower speeds, quote marks indicate the decimal place, so that 0"3 indicates 0.3 second and 2" indicates 2 seconds.

| |
|---|
| 15" 13" 10" 8" 6" 5" 4" 3"2 2"5 2" 1"6 1"3 1" 0"8 0"6 0"5 0"4 0"3 1/4 1/5 1/6 1/8 1/10 1/13 1/15 1/20 1/25 1/30 1/40 1/50 1/60 1/80 1/100 1/125 1/160 1/200 1/250 1/320 1/400 1/500 1/640 1/800 1/1000 1/1250 1/1600 1/2000 |

## Av Setting the Aperture

The aperture adjusts the amount of light that passes through the lens. Selecting a lower aperture value (opening the aperture) allows you to fade the background.
A higher aperture value (closing it) brings the entire range from foreground to background into focus.

- If the shutter speed shows in red on the LCD monitor, the image is underexposed (insufficient light) or overexposed (too much light). Adjust the aperture value using ◀ or ▶ until the shutter speed display turns white.
- Some aperture values may not be available with certain zoom positions (p. 76).

- Please note that camera shake becomes a factor with larger aperture values that slow down shutter speeds. If (camera shake warning) appears in the LCD monitor, secure the camera to a tripod before shooting.
- In this mode, the shutter speed range with synchronized flash is 1/60 second to 1/500 second. The aperture value setting may therefore be changed automatically to match the synchronized flash speed even if its value was set previously.

**Aperture Value Display**

The larger the aperture value, the smaller the lens aperture.

| | | | | | | |
|---|---|---|---|---|---|---|
| F2.8 | F3.2 | F3.5 | F4.0 | F4.5 | F4.8 | F5.0 |
| F5.6 | F6.3 | F7.1 | F8.0 | | | |

## M Manually Setting the Shutter Speed and Aperture

You can manually set the shutter speed and aperture to shoot images. You can select settings such as a long exposure to suit your purpose.

- When you press the shutter button halfway, a number indicating the difference between the standard exposure* and the selected exposure appears on the LCD monitor. If the difference is more than ±2 steps, “-2” or “+2” appears in red.

* The standard exposure is calculated by the AE function according to the selected metering mode.

- See page 151 for settings that can be changed in this mode.
- If you wish to change the exposure, select the shutter speed or the aperture with the **SET** button and change the value using ◀ or ▶.
- The LCD monitor's brightness matches the selected shutter speed and aperture value. When you select a fast shutter speed or shoot a subject in a dark place and set the flash to ⚡ ◉ (Red-eye Reduction, Flash On) or ⚡ (Flash On) the LCD monitor will always light up.
- For the correlation between aperture value and shutter speed, see page 76.

## Switching between Autofocus Modes

**Mode Dial** P Tv Av M SCN

You can change the autofocus frame (AF frame) selection method. The AF frame will appear when the LCD monitor is turned on (p. 28).

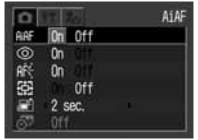
| | | |
|---|---|---|
| ■ ■ ■<br>■ ■ ■<br>■ ■ ■ | **On (Auto Selection)** | The camera automatically selects between 9 AF frames to focus according to the shooting conditions. |
| □ □ □<br>□ ■ □<br>□ □ □ | **OFF (Center)** | Of 9 AF frames, the middle one is selected to focus. This is convenient for making sure the focus is exactly where you want it. |

■ indicates the AF frame which appears on the monitor

### 1 In the [📷 (Rec.)] menu, select AiAF (AiAF).

- See *Selecting Menus and Settings* (p. 65).

**2** **Select [On] or [Off] using ◀ or ▶.**




**3** **Press the MENU button.**

- You can immediately shoot the image using the selected AF frame by pressing the shutter button instead of pressing the **MENU** button.

> The autofocus locks to center when using the digital zoom.

## Switching between Light Metering Modes

**Mode Dial** P Tv Av M

| | | |
|---|---|---|
| | **Evaluative Metering** | Appropriate for standard shooting conditions, including backlit scenes. The camera divides images into several zones for light metering. It evaluates the complex lighting conditions, such as the position of the subject, the brightness, the direct light, and the backlighting, and adjusts the settings to the correct exposure for the main subject. |
| | **Center-weighted Averaging** | Averages the light metered from the entire frame, but gives greater weight to the subject matter at the center. |
| | **Spot AE Point** | Meters the area within the spot AE point at the center of the LCD monitor. This is convenient when you wish to set the exposure adjustment on the subject. |

**1 Select * (Evaluative) from the FUNC. menu.**




- See *Selecting Menus and Settings* (p. 65).

* The current setting is displayed.

**2 Select a light metering mode using ◀ or ▶.**




**3 Press the FUNC. button.**

## Adjusting the Exposure

**Mode Dial** P Tv Av SCN

Adjust the exposure compensation setting to avoid making the subject too dark when it is backlit or shot against a bright background.

**1 Select * (± (Exp.)) from the FUNC. menu.**




- See *Selecting Menus and Settings* (p. 64).

* The current setting is displayed.

**2 Adjust the compensation using ◀ or ▶.**




- The settings can be adjusted in 1/3 stops in the range of -2EV to +2EV.
- You can check the results of the compensation by viewing the image on the LCD monitor when it is on.

- You can shoot the image right after selecting settings by pressing the shutter button. The menu displays again after the shot, allowing you to change the settings easily.

### 3 Press the FUNC. button.

- To cancel the exposure compensation, return the setting to 0 using ◀ or ▶.

## Adjusting the Tone (White Balance)

**Mode Dial** P Tv Av M

When the white balance is set to match the light source, the camera can reproduce colors more accurately.

| | | |
|---|---|---|
| AWB | **Auto** | The camera sets the white balance automatically according to shooting conditions. |
| | **Daylight** | Use when shooting outdoors in sunlight on a clear day. |
| | **Cloudy** | Use when shooting outdoors and the sunlight is not enough such as under cloudy skies, in shade or at dusk. |
| | **Tungsten** | For shooting under tungsten and bulb-type 3-wavelength fluorescent lighting. |
| | **Fluorescent** | For shooting under warm-white, cool-white or warm-white (3-wavelength) fluorescent lighting. |

| | | |
|---|---|---|
| | **Fluorescent H** | For shooting under daylight fluorescent, or daylight fluorescent-type (3-wavelength) fluorescent lighting. |
| | **Custom** | For setting a custom value with a white sheet of paper, etc., to obtain the optimal white balance for the conditions. |

## 1 Select AWB* (Auto) in the FUNC. menu.

- See *Selecting Menus and Settings* (p. 64).

* The current setting is displayed.

## 2 Select the white balance you wish to set using ◀ or ▶.




- See on the right regarding the custom setting.
- When the LCD monitor is on, you can check the setting on the display.
- A shot can be taken immediately by pressing the shutter button. The menu will reappear after the shot, allowing you to adjust the setting.

## 3 Press the FUNC. button.

> The white balance cannot be adjusted when the photo effect is set to (sepia) or BW (B / W).

### Setting a Custom White Balance

You can set a custom white balance to obtain optimal settings for your particular shooting conditions by having the camera evaluate a subject such as a white piece of paper or cloth. In the following three situations the white balance may not be correctly adjusted in AWB (Auto). Always shoot after reading and setting the white balance data in (Custom).

- Shooting at close distances (Macro mode)
- Shooting monotone subjects (such as the sky, sea, forest, and so on)
- Shooting under special light sources such as mercury lamps

## 1 Select AWB* (Auto) from the FUNC. menu.

- See *Selecting Menus and Settings* (p. 64).

* The current setting is displayed.

## 2 Select (Custom) using ◀ or ▶.

## 3 Aim the camera at a piece of white paper or cloth or gray card, and press the SET button.




- Aim the camera so that the white paper or cloth completely fills the frame at the center of the LCD monitor or completely fills the viewfinder before pressing the **SET** button. The camera reads the white balance data when you press the **SET** button.
- You can shoot right after setting the white balance. The menu displays again after the shot, allowing you to change the settings easily.

## 4 Press the FUNC. button.

- Some settings are not available with certain Shooting modes. Please refer to *Functions Available in Each Shooting Mode* (p. 151).
- To set and use a custom white balance setting, it is advisable to select the **P** Shooting mode and set the exposure compensation to zero (±0). The correct white balance may not be obtained when the exposure is incorrect (image is completely black or white).
- It is also advisable to use the LCD monitor to compose the shot and to zoom in to the telephoto end setting. In this case, set the digital zoom to [Off].
- Since the white balance data cannot be read in mode, preset the white balance in another Shooting mode.
- Shoot with the same settings as when reading the white balance data. If the settings differ, the optimal white balance may not be set. Especially the following should not be changed.

- **Flash**
  Setting the flash to on or off is recommended. If the flash fires when reading the white balance data with the flash set to Auto with red-eye reduction or Auto, make sure that you also use the flash when you shoot.
- **ISO Speed**

● The custom white balance setting is not canceled even if settings are reset to default settings. (p. 73)

## Changing the ISO Speed

**Mode Dial** | **P Tv Av M**

Raise the ISO speed when you wish to reduce camera shake, when turning the flash off for use in dark conditions, or when a fast shutter speed is required.

### 1 Select [ISO 50]* (ISO Speed) from the FUNC. menu.

● See *Selecting Menus and Settings* (p. 64).

* The current setting is displayed.

### 2 Select an ISO speed using ◀ or ▶.




● A shot can be taken immediately by pressing the shutter button. The menu will reappear after the shot, allowing you to adjust the settings easily.

### 3 Press the FUNC. button.

- Higher ISO speeds increase the image noise. To take clean images, use as low an ISO speed as possible.
- The AUTO setting selects the optimal speed. It will also automatically raise the speed when the light from the flash is insufficient to illuminate the subject matter.

You can easily shoot images in dark places such as indoor settings by using the (Indoor (p. 51)) option of the **SCN** mode.

## Changing the Photo Effect

**Mode Dial** P Tv Av M

By setting a photo effect before you shoot, you can change the look and feel of the pictures you take.

| | | |
|---|---|---|
| | **Effect Off** | Records normally with this setting. |
| | **Vivid** | Emphasizes the contrast and color saturation to record in bold colors. |
| | **Neutral** | Tones down the contrast and color saturation to record neutral hues. |
| | **Low Sharpening** | Records subjects with softened outlines. |
| | **Sepia** | Records images in sepia tones. |
| | **B/W** | Records images in black and white. |

**1** **Select * (Effect OFF) in the FUNC. menu.**

- See *Selecting Menus and Settings* (p. 64).

* The current setting is displayed.

**2** **Select the photo effect using ◀ or ▶.**




- If the LCD monitor is on, you can check the photo effect by viewing the image on the LCD monitor.
- A shot can be taken immediately by pressing the shutter button. The menu will reappear after the shot, allowing you to adjust the settings easily.

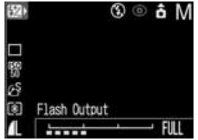
**3** **Press the FUNC. button.**

## Adjusting the Flash Output

**Mode Dial** **M**

In **M** mode, the flash output can be controlled in three steps when shooting.

**1** **Select (Flash Output) from the FUNC. menu.**




- See *Selecting Menus and Settings* (p. 64).

**2** **Adjust the flash output using ◀ or ▶.**

- You can shoot the image right after selecting settings by pressing the shutter button. The menu displays again after the shot, allowing you to change the settings easily.

**3** **Press the FUNC. button.**

> When the flash output is low, less shadow appears in the image. However, when shooting a wide scene or area, the image will likely be darker due to insufficient light. When adjusting the flash output, consider all the shooting conditions, including the distance to the subject.

## Shooting Problem Subjects for the Autofocus

**Mode Dial** AUTO P Tv Av M SCN

The following types of subjects may not be suited to autofocus photography.

- Subjects with extremely low contrast to the surroundings
- Subjects mixing close and far objects
- Subjects with extremely bright objects at the center of the composition
- Subjects that are moving quickly
- Subject with horizontal stripes

To shoot these subjects, first aim the camera at an object at a similar distance, lock the focus and recompose the image with the desired subject, or use manual focus.

## Shooting with Focus Lock

**1 Press the DISP. button to turn on the LCD monitor.**

**2 Aim the AF frame at an object at a similar distance to the subject you wish to shoot.**

**3 Press the shutter button halfway to lock the focus.**

- The AE setting will also lock when you do this. The exposure may occasionally be incorrect if the difference between the two items is too great. Use AF Lock when this happens.

**4 Recompose the image and press the shutter button all the way to shoot the image.**

## Shooting with AF Lock

**1 Press the DISP. button to turn on the LCD monitor.**

**2 Press the shutter button halfway to lock the focus. Keep it pressed and press the MF button.**

- The MF icon appears on the LCD monitor.
- The focus setting will lock even if the shutter button and the **MF** button are released.
- The AF lock setting will cancel if the **MF** button is pressed again.

**3 Recompose the image and press the shutter button all the way to shoot the image.**

AF lock is not available in AUTO and ▭ modes.

- When shooting in focus lock, you can lock the focus to the subject in the center AF frame by setting AiAF to off in the [📷 (Rec.)] menu.
- Shooting with AF Lock is convenient because you can let go of the shutter button to recompose the image. Moreover, the focus remains locked after the picture is taken, allowing you to capture a second image with the same focus.
- When shooting through glass, get as close as possible to avoid reflection off the glass.

## Shooting in Manual Focus Mode

The focus can be manually set.

**1 Press the DISP. button to turn on the LCD monitor.**

**2 Press the MF button until MF appears.**



MF indicator

- The MF indicator appears.
- The MF indicator shows approximate figures. Use them as a shooting guideline only.
- In the Tv, Av, or M modes, pressing the **SET** button cycles the selection between the shutter speed, the aperture value, and the **MF** indicator. (A green ▶ appears next to the selected item).

**3 Focus using ◀ or ▶ and shoot the image.**

- Adjust the focus using ◀ or ▶ until the image appears focused on the LCD monitor.
- Pressing the **MF** button a second time cancels the manual focus mode.

> - You can use manual focus in the macro focal distance 5 to 46 cm (2.0 in. to 1.5 ft.) at wide angle end and 26 to 46 cm (10 in. to 1.5 ft.) at telephoto end. In this case, the fine scale is adopted.
> - You can change the MF indicator displayed distance units (p. 71).

## Setting the Auto Rotate Function

This camera is equipped with an Intelligent Orientation sensor that detects the orientation of an image shot with the camera held vertically and automatically rotates it to the correct viewing orientation in the display. You can set this function on/off.

## 1 In the [ (Set up)] menu, select (Auto Rotate).




- See *Selecting Menus and Settings* (p. 65).

## 2 Select [On] and press the MENU button.

- When this function is on, an icon showing the orientation of the camera appears at the upper right corner of the LCD monitor (when information display is on).

| | |
|---|---|
| | Normal |
| | Right end down |
| | Left end down |

- This function may not operate correctly when the camera is pointed straight up or down. Check that the arrow is pointing in the right direction and if it is not, then set the Auto Rotate function to [Off].
- Even if the Auto Rotate function is set to [On], the orientation of images downloaded to a computer will depend upon the software used to download the images.

- When the camera is held vertically to shoot, the Intelligent Orientation sensor judges the upper end to be “up” and the lower end to be “down”. It then regulates the optimal white balance and exposure for vertical photography. This function operates regardless of the on/off status of the Auto Rotate function.
- When changing the camera’s orientation between the horizontal and vertical positions, you may hear noise coming from the orientation detection mechanism. This is not a malfunction.

## Rotating Images in the Display

You can rotate an image by 90° or 270° clockwise in the LCD monitor.



0° (Original) 90° 270°

**1 In the [▶ (Play)] menu, select (Rotate).**

- See *Selecting Menus and Settings* (p. 64).

**2 Press ◀ or ▶ to select the image to be rotated and press the SET button.**

- Press the **SET** button to rotate the image 90°, 270° and back to original orientation.

**3 Press the MENU button.**

- The Play menu appears again. Press the **MENU** button again to close the menu.

- Movie images cannot be rotated.
- If an image has been rotated in the camera before being loaded onto a computer, the particular software in use will determine whether or not the rotation settings are retained.

Rotated images can be magnified (p. 58).

## Attaching Sound Memos to Image

In Playback mode (including single image playback, index playback and magnified playback) you can attach sound memos (up to 60 seconds) to an image. The sound data are saved in WAVE format.

### 1 Select (Sound Memo) from the [ (Play)] menu.

- See *Selecting Menus and Settings* (p. 65).
- appears.

### 2 Select the image to which you wish to attach the sound memo using ◀ or ▶, and press the SET button.



Sound Memo Panel

- The Sound Memo panel appears.

### 3 Select using ◀ or ▶ and press the SET button.

- The recording starts and the elapsed time is displayed. Speak towards the microphone of the camera.
- To stop recording, press the **SET** button. To restart recording press the **SET** button again.
- You can add as many sound memos as you like until their total reaches 60 seconds.

**Playing the Sound Memos**

- Select ▶ (Play) in step 3. The ♪ icon is displayed on images with sound memos.
- To stop playback, press the **SET** button. To resume playback, press the **SET** button again. You can adjust the volume using ▲ or ▼.

**Erasing the Sound Memos**

- Select in step 3.

**Exiting the Sound Memos**

- Press the **MENU** button.

- You cannot attach sound memos to movies.
- You cannot record or play back sound memos for images that already have an incompatible sound file attached. If you attempt to record or play such images the "Incompatible WAVE format" message will display.
- Sound memos for protected images cannot be erased (p. 94).

- You can also adjust the volume of the sound memo in the Set up menu (p. 69).
- If you set [Mute] to [On] in the Set up menu (p. 68), no sound is reproduced. However, you can resume the sound and adjust the volume during movie playback by pressing ▲ or ▼.

## Auto Play

Use this feature to automatically play back all of the images in the CF card (Auto Play). The LCD monitor displays each image for approximately 3 seconds.

### 1 In the [▶ (Play)] Menu, select (Auto Play).

- See *Selecting Menus and Settings* (p. 65).
- Once you have selected it, Auto Play starts.
- As with the single image playback mode, pressing ◀ or ▶ during auto play will advance through the images more rapidly.

**Pausing and Resuming Auto Play**

- You can pause Auto Play at any time by pressing the **SET** button. You can then restart it by pressing the **SET** button again.

**Stopping Auto Play**

- To stop Auto Play, press the **MENU** button.

- The display interval may vary for some images.
- Movie images play for the length of time that they were recorded.
- The power saving function is disabled during Auto Play (p. 93).

## Protecting Images

Use the protect feature to protect important images from accidental erasure.

### 1 In the [▶ (Play)] menu, select (Protect).

- See *Selecting Menus and Settings* (p. 64).

### 2 Select an image you want to protect using ◀ or ▶ and press the SET button.




Protected Icon

- The icon appears on protected images.
- To release the protection, press the **SET** button again.
- Images can be selected in both single image playback and index playback modes (p. 57, 58).

### 3 Press the MENU button.

- The camera returns to the menu screen. Press the **MENU** button again to exit the menu screen.

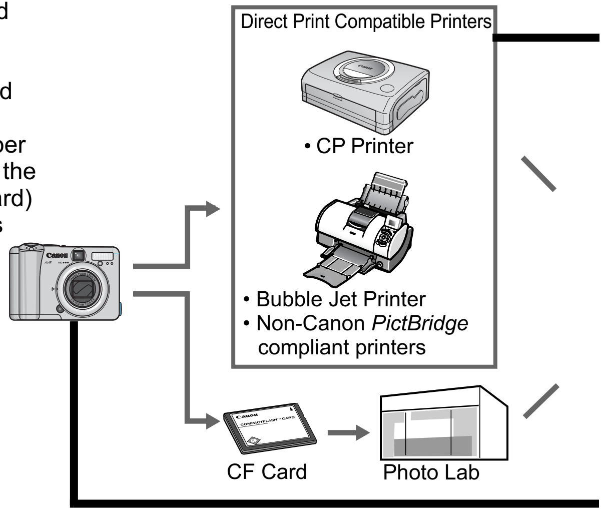
Please note that formatting (initializing) a CF card erases all data, including protected images (p. 21) and other file types. Please check the contents of a CF card before formatting it.

## About Printing

Images shot with this camera can be printed using one of the following methods.
- Connecting the camera to a direct print compatible printer*[1] with a single cable and pressing the ⎙ button on the camera.
- Selecting images and specifying the number of print copies (DPOF*[2] print settings) with the camera before sending the images (CF card) to a photo developing center that supports DPOF.

*[1] This camera complies with the *PictBridge* standard, which allows you to print with non-Canon *PictBridge* compliant printers as well.

*[2] Digital Print Order Format




This manual explains the DPOF print settings. For information on how to print images, refer to the *Direct Print User Guide* supplied with the camera. Also, refer to your printer's manual.

Direct Print Compatible Printing
• Connect the camera to the printer
• Set various print settings (except DPOF print settings)
• Print

↓

**For printing instructions, see the *Direct Print User Guide* (separate from this guide).**


Print

**DPOF Print Settings**

- Select the image you want to print (p. 98)

↓

- Select how many copies you want (p. 98)

↓

- Select the print style (p. 100)
  - Standard/Index/Both
  - Date On/Off
  - File Numbers On/Off

**For printing instructions, see the *Direct Print User Guide*.**

**DPOF Transfer Settings**

- Select the image you want to download to a computer (p. 103)

Please refer to the *System Map* supplied with your camera for direct print compatible printer information (CP series or Bubble Jet printers).

## DPOF Print Settings

You can select images on a CF card for printing and specify the number of print copies in advance using the camera. This is extremely convenient for sending the images to a photo developing service that supports DPOF or for printing on a direct print function compatible printer.
Refer to the *Direct Print User Guide* for instructions on how to select print settings from the printer.

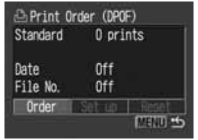
- The ⚠ mark may appear on images that have had print marks set by another DPOF compliant camera. These settings will be overwritten by any print marks set by your camera.
- The output of some digital printers or photo lab services may not reflect the specified print settings.
- Movies cannot be printed.

### Selecting Images for Printing

**1 In the [ (Play)] menu, select (Print Order) and press the SET button.**

- See *Selecting Menus and Settings* (p. 65).

**2 Select [Order] using ◀ or ▶ and press the SET button.**




**3 Select images for printing.**

**Single Images**

- When the print type (p. 100) is set to [Standard] or [Both], select an image using ◀ or ▶. You can set the number of copies (up to 99) to be printed using ▲ or ▼.

Number of Copies



- When the print type (p. 100) is set to [Index], select an image using ◀ or ▶ and mark or remove marks from images using ▲ or ▼. A check mark appears on the marked image.



- You can press the zoom lever and use the same procedures to select images in index playback (three images).

**All the Images on a CF Card**

- Press the zoom lever to switch to index playback (three images).
- You can set one copy of each image to print by pressing the **SET** button, then selecting [Mark all] using ▲ or ▼, and pressing the **SET** button again.




- When the print type is set to [Standard] or [Both], the setting for the number of print copies can be changed for each image.

When [Index] is selected, the print settings can be deleted. For the instructions on changing settings, please reread Step 3 from the beginning.

- You can cancel all the settings by selecting [Clear all].

## 4 Press the MENU button.

- The setting will be complete and the Print Order menu will reappear.

- Images are printed in order from oldest to newest by the shooting date.
- A maximum of 998 images can be set.
- When [Print Type] is set to [Both], the number of copies can be set. When it is set to [Index], the number of copies cannot be set (only one copy will be printed).
- Print settings can also be assigned to images with the bundled software programs ZoomBrowser EX or ImageBrowser on a computer. However, do not set the date in the DPOF print

settings when printing images that have had the date embedded with the [Date Stamp] function. This may cause the date to be printed twice.

## Setting the Print Style

You can set up the print style as follows.

| | | |
|---|---|---|
| **Print Type** | **Standard** | Print one image per sheet. |
| | **Index** | Print index prints (multiple reduced-size images per page). |
| | **Both** | Print selected images both in standard and index format. |
| **Date** | | Include the date on the print. |
| **File No.** | | Include the file number on the print. |

**1 In the [ (Play)] menu, select (Print Order) and press the SET button.**

- See *Selecting Menus and Settings* (p. 65).

**2 Select [Set up] using ◀ or ▶ and press the SET button.**



## 3 Select (Print Type), (Date) or (File No.) using ▲ or ▼.

## 4 Select a setting using ◀ or ▶.




**Print Type**
Select [Standard], [Index] or [Both].




**Date**
Select [On] or [Off].




**File No.**
Select [On] or [Off].

## 5 Press the MENU button.

- The set up menu will close and the Print Order menu will reappear.

- If you have chosen [Index] as the print type, you cannot set [Date] and [File No.] to [On] at the same time.
- With CP printers, if you have chosen [Both] as the print type, you can set both [Date] and [File No.] to [On], however, only the file number is printed for the index print.

The date prints as the date and time in the format specified in the Set Date/Time menu (p. 22).

### Resetting the Print Settings

The Reset feature clears all print selections, and resets Print Type to [Standard], Date to [Off], and File No. to [Off].

**1 In the [ (Play)] menu, select (Print Order) and press the SET button.**

- See *Selecting Menus and Settings* (p. 65).

**2 Use ◀ or ▶ to select [Reset] and press the SET button.**




**3 Use ◀ or ▶ to select [OK] and press the SET button.**

- Select [Cancel] and press the **SET** button to cancel the reset.

## Image Transfer Settings (DPOF Transfer Order)

You can use the camera to specify settings for images before downloading to a computer. Refer to the *Software Starter Guide* for instructions on how to transfer images to your computer. You cannot use this function to transfer several images at once to a Mac OS X computer.
The settings used on the camera comply with the Digital Print Order Format (DPOF) standards.

> The ⚠ mark may appear on images that have had transfer marks set by another DPOF compliant camera. These settings will be overwritten by any marks set by your camera.

## Selecting Images for Transferring

**1 In the [ ▶ (Play)] menu, select (Transfer Order) and press the SET button.**

- See *Selecting Menus and Settings* (p. 65).

**2 Use ◀ or ▶ to select [Order] and press the SET button.**




- You can remove all the transfer marks at once by selecting [Reset].

**3 Select images for transferring.**

**For setting images one by one**




- Use ◀ or ▶ to select the image and mark or remove checkmarks from images using ▲ or ▼. The check marks are displayed when set.
- The above method can be used even if you press the zoom lever toward ▦ to switch to index playback (3-images display).

**For setting all images on the CF card**




- Switch to index playback (a set of three images) by pressing the zoom lever toward ▦.
- Press the **SET** button, select [Mark all] using ▲ or ▼ and press the **SET** button again to mark all the images. (If you select [Clear all] instead of [Mark all], you can remove marks from all the images.)
- You can select images using ◀ or ▶ and change the settings using ▲ or ▼ after [Mark all] or [Clear all] has been selected.

**4 Press the MENU button.**

- The selection mode will turn off and the Transfer Order menu will reappear.

> - Images are transferred in order from oldest to newest by the shooting date.
> - A maximum of 998 images can be marked.

## Downloading Images to a Computer

The following methods can be used to download images recorded by the camera to a computer. Some methods are not applicable to all operating systems.

### ●Downloading via a Camera to Computer Connection

Windows 98 | Windows Me | Windows 2000 | Windows XP | Mac OS 9 | Mac OS X

- With this method, you download images using computer commands after you have installed the appropriate software.
  ➡ See *Connecting the Camera to a Computer* on the right and the separate *Software Starter Guide*.

Windows 98 | Windows Me | Windows 2000 | Windows XP

- With this method, you download images using camera button operations after you have installed the appropriate software (the computer settings only need to be adjusted for the first download).
  ➡ See *Connecting the Camera to a Computer* on the right and *Downloading Images by Direct Transfer* (p. 109).

Windows XP | Mac OS X

- With this method, you download images using computer commands without installing any software.
  ➡ See *Connecting the Camera to a Computer* (below)(software installation is not required) and *Connecting the Camera to the Computer to Download Images without Installing the Software* (p. 111).

### ●Downloading Directly from a CF Card

With this method, you download images using a card adapter or card reader.

➡ See *Downloading Directly from a CF Card* (p. 111).

## Connecting the Camera to a Computer

### Computer System Requirements

### ●Windows

| | |
|---|---|
| OS | Windows 98 (Including Second Edition)<br>Windows Me<br>Windows 2000<br>Windows XP (Home Edition, Professional) |

| | |
|---|---|
| Computer Model | The above OS should be pre-installed on computers with built-in USB ports. |
| CPU | Windows 98/Windows Me/Windows 2000: Pentium 150 MHz or higher processor<br>Windows XP: Pentium 300 MHz or higher processor<br>For all of the above OS: Pentium 500 MHz or higher processor is recommended (for editing movies) |
| RAM | Windows 98/Windows Me/Windows 2000: 64 MB or more<br>Windows XP: 128 MB or more<br>For all of the above OS: 128 MB or more is recommended (for editing movies) |
| Interface | USB |
| Free Hard Disk Space | ●**Canon Utilities**<br>- ZoomBrowser EX: 200 MB or more (Including the PhotoRecord printing program)<br>- PhotoStitch: 40 MB or more<br>●**Canon Camera TWAIN Driver**: 25 MB or more<br>●**Canon Camera WIA Driver**: 25 MB or more |
| Display | 800 x 600 pixels/High Color (16 bit) or better is required<br>1,024 x 768 pixels or better is recommended |

### ●Macintosh

| | |
|---|---|
| OS | Mac OS 9.0 – 9.2,<br>Mac OS X (v10.1/v10.2) |
| Computer Model | The above OS should be pre-installed on computers with built-in USB ports. |
| CPU | PowerPC |
| RAM | Mac OS 9.0 – 9.2: 64 MB or more of application memory<br>Mac OS X (v10.1/v10.2): 128 MB or more |
| Interface | USB |
| Free Hard Disk Space | ●**Canon Utilities**<br>- ImageBrowser: 120 MB or more<br>- PhotoStitch: 30 MB or more |
| Display | 800 x 600 pixels/32,000 colors or better is required<br>1,024 x 768 pixels or better is recommended |

IMPORTANT
You must install the software and driver bundled on the supplied Canon Digital Camera Solution Disk onto your computer before connecting the camera to a computer.

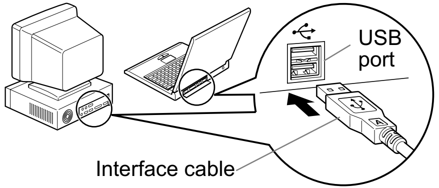
The camera will not operate correctly if you connect it to your computer before installing the driver and software. If this happens, please refer to the *Troubleshooting* section of the *Software Starter Guide*.

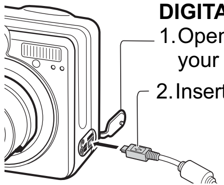
- You do not need to turn off the camera or computer power when making a USB connection.
- Please refer to your computer's manual for information regarding the location of the USB port.
- You are recommended to use new AA size batteries, fully charged AA size NiMH batteries or AC Adapter Kit ACK600 (sold separately) to power the camera when connecting to a computer (p. 128, 130).
- All procedures performed with a connection to a USB 2.0 compliant board are not guaranteed.

## 1 Install the driver and the software applications bundled on the Canon Digital Camera Solution Disk.

- Please see the *Software Starter Guide* for the installation procedures.

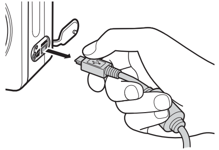
## 2 Use the supplied interface cable to connect the computer's USB port to the camera's DIGITAL terminal.





**DIGITAL** Terminal

1. Open the terminal cover with your finger nail.
2. Insert the connector until it clicks.



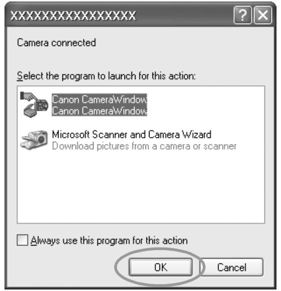
Always grasp the connector to remove the interface cable from the camera's **DIGITAL** terminal.

### 3 Set the camera's mode switch to ▶.

### 4 Press the ON/OFF button until the power lamp lights green.

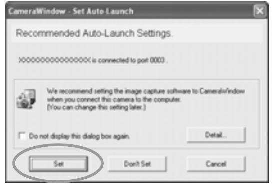
- **Windows**
  → Proceed to steps 5 and 6 below.
- **Macintosh**
  → Refer to the *Software Starter Guide* and download images.

### 5 Select [Canon CameraWindow] in the events dialog that appears on the computer and click [OK] (first time only).




If the events dialog fails to appear, click the [Start] menu, followed by [Programs] or [All Programs], [Canon Utilities], [CameraWindows], and [CameraWindow - Set Auto-Launch].

## 6 Click [Set] in the [CameraWindow - Set Auto-Launch] window (first time only).



- The Download Image window will display.



- **Using the software and computer to download images:**
  → See the *Software Starter Guide*.
- **Using the Camera to Download Images (Direct Transfer Function):**
  → See *Downloading Images by Direct Transfer* (p. 109).

## Downloading Images by Direct Transfer

Use this method to download images using camera operations.
Install the supplied software and adjust the computer settings before using this method for the first time (p. 106).

| | | |
|---|---|---|
| | **All Images** | Transfers and saves all images to the computer. |
| | **New Images** | Transfers and saves to the computer only the images that have not been previously transferred. |
| | **DPOF Trans. Images** | Transfers and saves to the computer only the images with DPOF Transfer Order settings (p. 102). |
| | **Select & Transfer** | Transfers and saves single images to the computer as you view and select them. |
| | **Wallpaper** | Transfers and saves single images to the computer as you view and select them. The transferred images display on the computer desktop. |

### 1 Confirm that the Direct Transfer menu is displayed on the camera's LCD monitor.



Direct Transfer Menu

- The ⎙∿ button will light blue.
- Press the **MENU** button if the Direct Transfer menu fails to appear.

### All Images/New Images/DPOF Trans. Images

**2 Use ▲ or ▼ to select , or and press the button.**




- To cancel the transfer, press the **SET** button.
- The images will download and the Direct Transfer menu will reappear.

### Select & Transfer/Wallpaper

**2 Use ▲ or ▼ to select or and press the button (or SET button).**

**3 Use ◀ or ▶ to select images to download and press the button (or SET button).**

- The images will download.
- The button will blink blue while downloading is in progress.

**4 Press the MENU button.**

- The Direct Transfer menu will display again.

Only JPEG format images can be downloaded as wallpaper for the computer.

The option selected with the button is retained even when the camera's power is shut off. The previous setting will be in effect the next time the Direct Transfer menu is displayed. The image selection screen will appear directly when the Select and Transfer or the Wallpaper option was last selected.

## Connecting the Camera to the Computer to Download Images without Installing the Software

If you are using Windows XP or Mac OS X (v10.1 or v10.2), you can use the software distributed with these operating systems to download images (JPEG format only) without installing the software bundled on the Canon Digital Camera Solution Disk. This is useful for downloading images to a computer in which the software is not installed. However, please note that there are certain limitations to downloading images with this method. For more details, please refer to the *For Windows® XP and Mac OS X Users* leaflet.

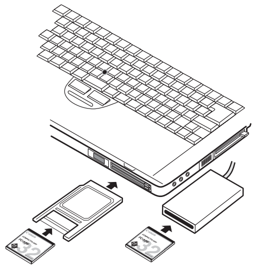
**1 Use the supplied interface cable to connect the computer's USB port to the camera's DIGITAL terminal.**

- See steps 2 to 4 on pages 106 and 107.

**2 Follow the onscreen instructions to proceed with downloading.**

## Downloading Directly from a CF card

**1 Eject the CF card from the camera and insert it into a CF card reader connected to the computer.**



- If you are using a PC card reader or a PC card slot, first insert the CF card into a PC card adapter (sold separately) and then insert the loaded adapter into the slot.
- Refer to your card adapter’s or card reader’s manual for information regarding the connection between the computer and card adapter or card reader.

## 2 Double-click the icon of the drive with the CF card.

- Depending on the operating system, a window opens automatically.

## 3 Copy images from the card into a folder of your choice on the hard disk.

- The images are stored in the [xxx CANON] folders located in the [DCIM] folder (where xxx is a three-digit number from 100 to 998 (p. 114)).

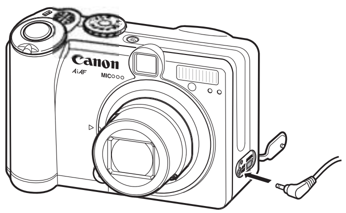
# Viewing Images on a TV Set

AV cable AVC-DC300 can be used to view images as you shoot or play them back.

## 1 Turn off the camera (p. 25).

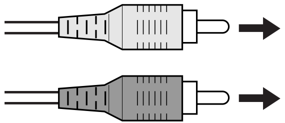
- Turn off the television also.

## 2 Attach the AV Cable to the terminal on the camera.



## 3 Plug the other ends of the AV cable to the video in and audio in jacks on the TV.

Yellow Plug to the Video In Jack



Black Plug to the Audio In Jack

## 4 Turn on the TV and switch it to Video mode.

## 5 Turn on the camera (p. 25).

- The image will appear on the TV. Shoot or playback images as usual.
- If the images are not appearing on the TV when shooting, press the **DISP.** button.

- No image will appear on the LCD monitor when the camera is connected to a TV monitor.
- If the TV is a stereo model, you can plug the audio plug into either the left or right Audio In jack. Please refer to the TV's manual for details.
- A TV set cannot be used in mode.
- The video output signal can be switched (NTSC or PAL) to accommodate different regional standards (p. 71). The default setting varies between regions.
  - NTSC: Japan, U.S.A., Canada, Taiwan, etc.
  - PAL: Europe, Asia (excluding Taiwan), Oceania, etc.

  If the video system is set incorrectly, the camera output may not display properly.

## Resetting the File Number

Select the set up method for the file number.

| | |
|---|---|
| **On** | The camera resets the file number to 100-0001 each time you insert a new (unused) CF card. If you insert a card that already contains some images, numbering resumes from the next available number. |
| **Off** | The camera remembers the last file number, and starts numbering from the next number when you insert a new CF card. |

**1 In the [ (Set up)] menu, select (File No. Reset).**




- See *Selecting Menus and Settings* (p. 65).

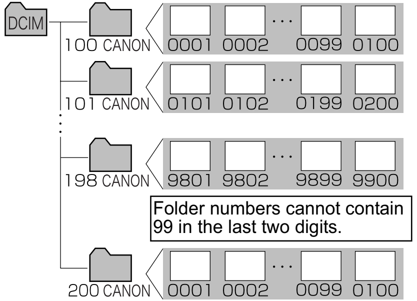
**2 Press ◀ or ▶ to select [On] or [Off].**

**3 Press the MENU button.**

Setting the File No. Reset to [Off] is useful for avoiding file name duplication when images are downloaded to a computer.

**About File and Folder Numbers**

Images are assigned file numbers from 0001 to 9900, and folders are assigned folder numbers from 100 to 998 (Folder numbers cannot contain 99 in the last two digits).



**Folder File Capacity**
Each folder usually contains up to 100 images. However, since images shot in Continuous Shooting or Stitch Assist mode are always saved into the same folder, a folder may contain more than 100 images. The number of images may also exceed 100 if a folder contains images copied from a computer or images shot with other cameras. Please note, however, that the images in folders containing 2001 or more images cannot be played back in this camera.

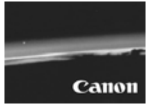
# Customizing the Camera (My Camera Settings)

My Camera allows you to customize the start-up image and start-up, shutter, operation and self-timer sounds. Each menu item has three choices.

**Example**: Start-up image




1




2




3

As default settings, My Camera setting 2 has a science fiction theme and My Camera setting 3 has an animal theme.

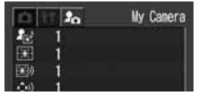
## Changing My Camera Settings

### 1 Press the MENU button.

- The [ (Rec.)] or [ (Play)] menu appears.



**2** **Select [ (My Camera)] using ◀ or ▶ and select a menu item using ▲ or ▼.**




**3** **Select the contents you wish to set using ◀ or ▶.**




**4** **Press the MENU button.**

- Pressing the button closes the menu and makes the settings take effect.
- In Shooting mode, the menu can be closed by pressing the shutter button halfway.

> - If you select [Theme] in Step 3, you can select a consistent theme for each of the My Camera settings.
> - If [Mute] in the [ (Set up)] menu is set to [On], the beep does not sound even if each sound item such as [Start-up Sound], [Operation Sound], [Self-timer Sound] or [Shutter Sound] in the [ (My Camera)] menu is set to [ , , (On)] (p. 68). The error warning signal beeps even if [Mute] is set to [On].



## Registering My Camera Settings

Images recorded onto the CF card and newly recorded sounds can be added as My Camera settings to the  and  menu items. You can also use the supplied software to upload your computer's images and sounds to the camera.
The following menu items can be saved to the camera.

- Start-up Image
- Start-up Sound
- Operation Sound
- Self-timer Sound
- Shutter Sound

### Registering the CF Card Images and Sounds

**1** **Press the ON/OFF button to turn the camera on (p. 25) and set the mode switch to ▶.**

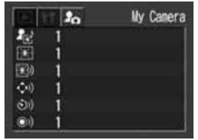
- The camera powers into Playback mode.

## 2 Press the MENU button.

- The [▶ (Play)] menu appears.




## 3 Select [ (My Camera)] using ▶ and select the menu item you wish to register using ▲ or ▼.




## 4 Select or using ◀ or ▶.




- DISP appears.

## 5 Press the DISP. button.

- An image appears.

Start-up Image: Go to step ***6a***, ***7a***
Start-up Sound, Shutter Sound, Operation Sound, and Self-Timer Sound: Go to step ***6b***, ***7b***

## 6a Select the image you wish to register using ◀ or ▶.




## 7a Press the SET button.

## 6b Select ● (Record) using ◀ or ▶ and press the SET button.



- Recording starts.
- Recording stops when the time is exceeded.
  - Start-up Sound: 1 second
  - Operation Sound: 0.3 seconds
  - Self-timer Sound: 2 seconds
  - Shutter Sound: 0.3 seconds

**7b Select (Register) using ◀ or ▶.**

**8 Select [OK] using ◀ or ▶ and press the SET button.**




- Sounds recorded using the Sound Memo function and movies cannot be registered as My Camera settings (p. 55, 92).
- When you register new My Camera settings, the previously registered settings are erased.

## File Format of My Camera Settings

My Camera settings should conform to the below file formats. However, CF card images shot with this camera can be registered as My Camera settings regardless of the below formats.

- **Start-up Image**
  - Recording Format JPEG (baseline JPEG)
  - Sampling Rate 4:2:0 or 4:2:2
  - Image Size 320 x 240 pixels
  - File Capacity 20 KB or less
- **Start-up, Operation, Self-timer and Shutter Sounds**
  - Recording Format WAVE (monaural)
  - Quantization Bits 8 bit
  - Sampling Frequency 11.025 kHz or 8.000 kHz

• Recording Time

| | 11.025 kHz | 8.000 kHz |
|---|---|---|
| **Start-up Sound** | 1.0 sec. or less | 1.3 sec. or less |
| **Operation Sound** | 0.3 sec. or less | 0.4 sec. or less |
| **Self-timer Sound** | 2.0 sec. or less | 2.0 sec. or less |
| **Shutter Sound** | 0.3 sec. or less | 0.4 sec. or less |

Any file formats other than those described above cannot be used with this camera.

An example of this function is to record “Say Cheese”, as the self-timer sound so the camera will play back this sound 2 seconds before the photo is taken. You could also record cheerful music to bring out the natural smiles of your subjects, or so they can strike a pose fitting the music. In these ways you can customize your camera by creating and adding new My Camera settings.

See the supplied *Software Starter Guide* for more information on creating and adding to the My Camera Settings files.

# List of Messages

The following table explains each of the messages that may appear on the LCD monitor.

- For messages which may appear when a printer is connected, refer to the *Direct Print User Guide*.

| | |
|---|---|
| **Busy...** | The camera is recording image data to the CF card.<br>The playback mode is running. |
| **No memory card** | You attempted to shoot or play back with no CF card installed. |
| **Cannot record** | You attempted to shoot with no CF card installed. |
| **Memory card error** | There is something wrong with the CF card. |
| **Memory card full** | CF card is too full to accommodate more images or print settings. |
| **Naming error** | The camera cannot generate a file name for the image you have shot because the card already contains a folder having the same name as the file to be created, or the file number has already reached the maximum possible value.<br>Display the Play menu and set [File Number Reset] to [On]. Save all images you wish to keep into your computer, and reformat the CF card. Please note that formatting will erase all data in the card. |
| **Change the batteries** | Battery charge is insufficient to operate the camera. Replace all batteries at the same time with new AA-size alkaline batteries (p. 17) or fully recharged Canon NiMH batteries. |
| **No image** | No images recorded on CF card. |
| **Image too large** | You attempted to play back an image whose resolution exceeded 4064 x 3048 pixels or whose file size was too large. |
| **Incompatible JPEG format** | You attempted to play back an incompatible JPEG file. |

| | |
|---|---|
| **Corrupted data** | You attempted to play back an image with corrupted data. |
| **RAW** | You attempted to play back an image recorded in the RAW format. |
| **Unidentified image** | You attempted to play back an image that was recorded in a special format (proprietary format used by the camera of another manufacturer) or a movie that was taken with another camera. |
| **Cannot magnify** | You attempted to magnify an image recorded by another camera, or recorded in a format that cannot be magnified, or edited on a computer or a movie clip. |
| **Cannot rotate** | You attempted to rotate an image recorded by another camera, or recorded in a format that cannot be rotated, or edited on a computer or a movie clip. |
| **Incompatible WAVE format** | Cannot attach sound memo to the image because the image has some sound file recorded in an inappropriate format. |
| **Cannot register this image** | You attempted to register an image recorded with another camera or a movie clip as a start-up image. |
| **Protected** | You attempted to erase a protected image or movie clip. |
| **Too many marks** | Too many images have been marked for printing, transferring, or auto playing. Cannot process any more. |
| **Unselectable image** | You attempted to set the print settings for a non-JPEG file. |
| **Exx** | Camera malfunctioned. Turn off the power and turn on again, then re-shoot or play back. If the same message recurs frequently, the camera may be damaged. Note down the error number [xx] and take the camera to a Customer Support Help Desk. If this message appears immediately after you have taken a shot, the camera may not have shot the image. Switch to the Playback mode and check whether the image was actually recorded. |

| Problem | Cause | Solution |
|---|---|---|
| The camera doesn't function. | The camera is turned off. | ● Press the ON/OFF button for a few moments. |
| | The CF card slot cover or the battery cover is open. | ● Be sure the cover is closed securely. |
| | Batteries are loaded in the wrong direction. | ● Reload the batteries in the correct direction. |
| | Batteries are depleted. | ● Replace with unused alkaline or fully recharged batteries (four AA-size batteries)<br>● Use a household power source. |
| | Batteries are not the right type. | ● Use only unused AA-size alkaline batteries or Canon AA-size NiMH batteries. (For information about alkaline batteries, see *Proper Battery Handling* (p. 18).) |
| | Batteries are not making good electrical contact with the camera. | ● Wipe the battery terminals with a clean dry cloth. |
| The camera doesn't shoot. | Camera is in Playback mode. | ● Change to the Shooting mode. |
| | The flash is charging. | ● Wait until the flash charges. You can press the shutter button when the indicator next to the viewfinder lights a steady orange. |
| | The CF card is full. | ● Insert a new CF card.<br>● Download images to your computer, then erase them from the card to free up more space. |

| Problem | Cause | Solution |
|---|---|---|
| The camera doesn't shoot. | The CF card is not formatted correctly. | ● Format the CF card. (p. 21).<br>● The card may be defective (its logical may be corrupted). Contact the nearest Canon Customer Help Desk. |
| Cannot play back | You attempted to play back images shot with another camera or images edited at a computer. | ● Computer images that cannot be played back will playback if they are added to the camera using the bundled software program ZoomBrowser EX or ImageBrowser. See the *ZoomBrowser EX/ImageBrowser User Guide* (PDF). |
| | File name was changed with a computer or file location was changed. | ● Set the file name or location to the file format/ structure of the camera (See *About File and Folder Numbers* (p. 114)). |
| Lens will not retract | Battery cover or CF card slot cover opened with camera on. | ● Close the CF card slot cover or battery cover, then turn off the camera. |
| | Battery cover or CF card slot cover opened while camera was recording to CF card (warning signal sounds). | ● Close the covers, and then use the ON/OFF button to turn the power off correctly. |
| The batteries are consumed quickly. | Batteries are not the right type. | ● Use only unused AA-size alkaline batteries or Canon AA-size NiMH batteries. (For information about alkaline batteries, see *Proper Battery Handling* (p. 18).) |

| Problem | Cause | Solution |
|---|---|---|
| The batteries are consumed quickly. | Battery capacity drops due to low ambient temperatures. | ● If shooting in a cold area, keep the batteries warm (by placing them in an inner pocket, etc.) until ready to use them. |
| | Battery terminals are dirty. | ● Wipe them well with a dry cloth before use. |
| | The batteries have not been used for over a year. | ● Performance should return to normal after several charging cycles. |
| | Battery life exceeded. | ● Replace all 4 batteries with new ones. |
| If using rechargeable batteries: Batteries do not charge in separately sold battery charger. | Batteries were placed in the charger in the wrong direction. | ● Put batteries back into the charger in the correct direction. |
| | Poor electrical contact, between batteries and the charger. | ● Be sure to set batteries firmly into the charger.<br>● Be sure that the power cord is firmly connected to the charger, and is firmly plugged in to the power outlet. |
| | Battery terminals are dirty. | ● Wipe them well with a dry cloth before charging. |
| | Battery life exceeded. | ● Replace all 4 batteries with new ones. |
| Shots are blurry or unfocused. | The camera was moving when you took the shot. | ● Hold the camera steady when shooting. |
| | Autofocus function hampered by obstruction to AF-assist beam. | ● Be careful not to block the AF-assist beam flash part with a finger or other object. |
| | The AF-assist beam settings are set to [Off]. | ● Turn the [AF-assist beam] setting [On] (p. 67). |

| Problem | Cause | Solution |
|---|---|---|
| Shots are blurry or unfocused. | Subject out of focal range. | ● Ensure that there is at least 46 cm (1.5 ft.) between the camera lens and subject.<br>● When shooting subjects within the 5 to 46 cm (2.2 in. – 1.5 ft.) wide angle range or the 26 to 46 cm (10 in. – 1.5 ft.) telephoto range, use Macro mode. |
| | Subject is hard to focus on. | ● Use the focus lock or the manual focus to shoot the image. (See *Shooting Problem Subjects for the Autofocus* (p. 87)) |
| The subject comes out underexposed (too dark). | Insufficient light for shooting. | ● Set the flash on. |
| | The subject is darker than the surroundings. | ● Set exposure compensation to a positive value or use the spot metering function. |
| | Subject too far for flash to reach. | ● When the flash is used, the distance between lens and subject should not exceed 4.2 m (14 ft.) at wide angle and 2.5 m (8.2 ft.) at telephoto. Raise the ISO sensitivity and then shoot. (See *Changing the ISO Speed* (p. 84)) |
| The subject comes out overexposed (too bright). | The subject is too close to the flash. | ● When the flash is used, the distance between lens and subject should be no less than 26 cm (10 in.). |
| | The subject is brighter than the surroundings. | ● Set exposure compensation to a negative value. |

| Problem | Cause | Solution |
|---|---|---|
| The subject comes out overexposed (too bright). | Light is shining or reflecting into the camera. | ● Adjust the camera angle. |
| | The flash mode is set so that the flash always fire. | ● Set the flash to any other mode except on. |
| A vertical bar of light (red, purple) appears on the LCD monitor. | The subject is too bright. | ● This is a normal occurrence in devices containing CCDs and does not constitute a malfunction. (This red bar of light will not be recorded when shooting still photos, but it will be recorded when shooting movies.) |
| White dots or white asterisks appear on the image. | Light from the flash has reflected off dust particles or insects in the air. This occurs more frequently in the following conditions:<br>- When shooting at the wide angle end.<br>- When shooting with a high aperture value in the aperture-priority AE mode. | ● This is a phenomenon that occurs with digital cameras and does not constitute a malfunction. |
| The flash doesn't fire. | The flash mode is set to flash off mode. | ● Set the flash mode to any other mode except Off. |

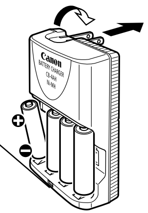
| Problem | Cause | Solution |
|---|---|---|
| Image not showing on TV. | Incorrect video system setting. | ● Set the video system to the appropriate setting, NTSC or PAL, for your TV. |
| | The mode dial is turned to (Stitch Assist). | ● Turn the mode dial to any mode other than . |
| Zoom does not operate. | Zoom lever was pressed while shooting in Movie mode. | ● Operate the zoom before shooting in Movie mode. |
| Reading images from CF card is slow. | CF card was formatted in another device. | ● Use a CF card formatted in your camera. See *Formatting a CF Card* (p. 21). |
| Recording images to CF card takes a long time. | | |

## Using the Power Kits (Sold Separately)

### Using Rechargeable Batteries

### (Battery and Charger Kit CBK4-200)

Included are the battery charger and four rechargeable AA-size NiMH (nickel metal hydride) batteries. Charge batteries as shown below.




- This charger can be used only to charge Canon AA-size NiMH NB-2AH batteries. Please do not attempt to charge any other type of batteries with this charger.
- Never mix new batteries together with batteries that have been used in other devices.
- When recharging batteries from the camera, always recharge all four of them at the same time.
- All batteries you place in the charger should be at approximately the same charge state, and should have been purchased at the same time. Don't mix batteries with different purchase dates or different charge states.
- Do not attempt to recharge fully charged batteries, as doing so may reduce or impair battery performance. Also, do not charge batteries for more than 24 consecutive hours.
- Do not recharge batteries in enclosed areas that tend to retain heat.
- Repeatedly recharging batteries before they become fully depleted may cause batteries to lose capacity. Do not recharge the batteries until the LCD monitor displays the “Change the batteries” message.
- Wipe the battery terminals well with a dry cloth in the following situations, as the terminals may be soiled with oil from one’s skin or other dirt:

- If the battery usage time has considerably diminished
- If the number of recordable images has considerably diminished
- When charging the batteries (insert and remove the batteries two or three times before charging)
- When charging completes in a matter of a few minutes (the battery charger indicator remains lit)

● You may not be able to fully charge the batteries due to their specifications right after purchase or after long periods of non-use. If this happens, use the batteries until their charge is depleted before charging them again. After doing this several times, battery performance will be restored.

● Since storing fully charged batteries for long periods of time (about 1 year) can shorten their lifecycle or affect performance, you are recommended to use the batteries in the camera until they are completely discharged and to store them at normal temperature (23 °C/73 °F) or less. If you do not use the batteries for long periods of time, charge them fully and discharge them fully in the camera at least once a year before returning them to storage.

● If battery usage time is considerably low despite their terminals being wiped and the battery charger's indicator remaining lit, it is possible that the batteries have reached the end of their lifespan. Switch to different, unused batteries. If you are purchasing new batteries, look for Canon’s AA-size NiMH batteries (four piece set).

● Leaving batteries in the camera or charger may damage it causing battery leakage. Remove batteries from the camera or charger and store in a dry cool location when not in use.

● It takes approximately 250 minutes for the charger to fully recharge the batteries (as determined by testing at Canon facilities). Please do not charge batteries in areas where the temperature is outside the range of 0 to 35°C (32 to 95°F).

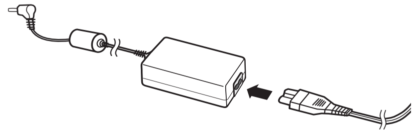
- Charging time varies according to ambient temperature and to the batteries' initial charge state.
- The battery charger may emit noise while charging. This is not a malfunction.
- Battery/Charger Kit CBK100 can also be used. Use Canon AA-size batteries NB-1AH with the CBK100 charger.

## Using the AC Adapter Kit ACK600

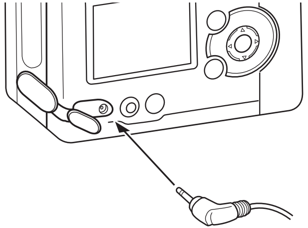
Use of AC Adapter Kit ACK600 (sold separately) is recommended when using the camera continuously for prolonged periods of time and when connecting to a computer.

Be sure that the camera is turned off before connecting or disconnecting the compact power adapter.

**1 Connect the power cord to the compact power adapter, and then plug the other end into the power outlet.**



**2 Open the terminal cover, and connect the compact power adapter's DC plug into the camera's DC IN terminal.**



- Please unplug the adapter from the power outlet when you have finished using the camera.

Please do not attempt to use any AC adapter other than AC Adapter Kit ACK600 with your camera. Use of a different adapter may result in damage to the camera or to the adapter kit.

## Using the Lenses (Sold Separately)

The camera supports use of the separately sold Wide Converter WC-DC52, Tele-converter TC-DC52 and Close-up Lens 250D (52 mm). In order to attach any of these lenses, you also need to use the separately sold Conversion Lens Adapter LA-DC52C.

- When attaching the wide converter, tele-converter or close-up lens, be sure to screw it on securely. If they come loose they may fall from the lens adapter, posing risk of injury from shattered glass.
- Never look into the sun or into strong light through the wide converter, tele-converter or the close-up lens, as this can result in blindness or impairment of vision.

- If you use the flash when shooting with the wide converter, the outer area of the recorded image (especially lower right corner) will come out relatively dark.
- When using the tele-converter, please set the focal length to the telephoto end. At other zoom settings, the image will appear as if its corners have been cut off.

- When using the wide converter, please set the camera to the wide angle end.
- The wide converter blocks part of the view through the viewfinder.

## Wide Converter WC-DC52

Use this converter for taking wide-angle shots. The wide converter changes the focal length of the camera body's lens by a factor of 0.7 (the thread diameter is 52 mm.).

## Tele-converter TC-DC52

This 52 mm-threaded diameter magnifying conversion lens is for taking telephoto shots. The lens changes the focal length of the camera body's lens by a factor of 2.4.

## Close-Up Lens 250D (52 mm)

This lens makes it easy to take macro shots. With the camera set to Macro mode, you can use this option to shoot subjects that are 3 to 25 cm (1.2 to 9.8 in.) away from the front of the lens (or 13 to 25 cm (5.1 to 9.8 in.) at the telephoto end).

It is not possible to attach a lens hood or filter to the wide converter or tele-converter.

### Shooting Ranges in Macro Mode

| | Distance between Front of the Lens and Subject | Field Coverage |
|---|---|---|
| Telephoto End | 13 cm (5.1 in.) | 48 × 36 mm (1.9 × 1.4 in.) |
| | 25 cm (9.8 in.) | 82 × 61 mm (3.2 × 2.4 in.) |
| Wide Angle End | 3 cm (1.2 in.) | 49 × 37 mm (1.9 × 1.5 in.) |
| | 25 cm (9.8 in.) | 230 × 173 mm (9.1 × 6.8 in.) |

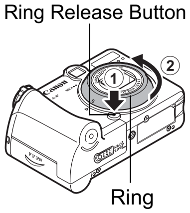
## Conversion Lens Adapter LA-DC52C

This separately sold adapter is required for attaching the wide converter, tele-converter and close-up lens (52 mm thread diameter).

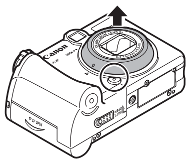
## Attaching a Lens

**1** **Be sure that the camera is turned off.**

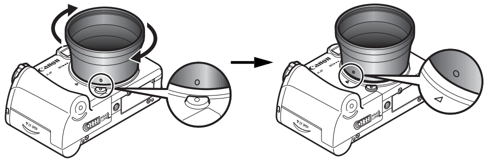
**2** **Press the ring release button and hold it down, and turn the ring in the direction of the arrow.**



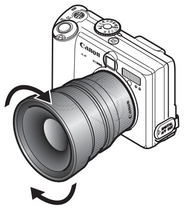

**3** **When the ○ mark on the ring and the ● mark on the camera are aligned, lift off the ring.**



**4** **Align the ● mark on the conversion lens adapter with the ○ mark on the camera, and turn the adapter in the direction of the arrows as far as the ▷ mark on the camera.**



**5** **Set the lens on the adapter, and attach it securely by turning it in the indicated direction.**



- Completely remove all dust and dirt from conversion lenses with a lens blower brush before use. The camera may focus on any dirt that remains.
- Exercise due caution when handling the lenses since it is easy to dirty them with finger prints.
- Be careful not to drop the camera or adapter when removing the ring.
- When shooting with these attachments, please use the LCD monitor to compose your shots. The attachments block part of the view through the viewfinder, and the area shown in the viewfinder does not match the area of the shot that is actually recorded. Also, the angle of view cannot be confirmed in the viewfinder.
- You should not shoot images in mode when using these attachments. Although it is possible to select this mode at the camera, the PhotoStitch software will not be able to stitch the images together at the computer.

## Camera Care and Maintenance

Use the following procedures to clean the camera body, lens, viewfinder, LCD monitor and other parts.

| | |
|---|---|
| **Camera Body** | : Wipe the camera body with a soft cloth or eyeglass lens wiper. |
| **Lens** | : First use a lens blower brush to remove dust and dirt, then remove any remaining dirt wiping the lens lightly with a soft cloth.<br>● Never use synthetic cleaners on the camera body or lens. If dirt remains, contact the closest Canon Customer Support Help Desk as listed on the separate Canon Customer Support leaflet. |

| | |
|---|---|
| **LCD Monitor, Viewfinder** | : Use a lens blower brush to remove dust and dirt. If necessary gently wipe the viewfinder and LCD monitor with a soft cloth or an eyeglass lens wiper to remove stubborn dirt.<br>● Never rub or press forcefully on the LCD monitor. These actions may damage it or lead to other problems. |

Never use water, paint thinner, benzene, or detergents to clean the camera, as these may cause damage or deformation.

# Specifications

All data is based on Canon's standard testing methods. Subject to change without notice.

| | |
|---|---|
| Camera Effective Pixels | Approx. 3.2 million |
| Image Sensor | 1/2.7-inch CCD (Total number of pixels: Approx. 3.3 million) |
| Lens | 5.4 (W) – 16.2 (T) mm (35 mm film equivalent: 35 (W) – 105 (T) mm)<br>f/2.8 (W) – f4.8 (T) |
| Digital Zoom | Approx. 3.2x (Up to approx. 10x in combination with the optical zoom) |
| Optical Viewfinder | Real-image zoom viewfinder |
| LCD Monitor | 1.8-inch TFT color LCD, approx. 118,000 pixels |
| AF System | TTL autofocus<br>Focus lock available<br>Focusing frame: 9-point AiAF/1-point AF (Fixed to center) |
| Shooting Distance (from the front of the lens) | Normal: 46 cm (18.1 in.) – infinity<br>Macro: 5 – 46 cm (2.0 in. – 1.5 ft.) (W) / 26 – 46 cm (10 in. – 1.5 ft.) (T)<br>Manual Focus: 5 cm (2.0 in.) – infinity (W) / 26 cm (10 in.) – infinity (T) |
| Shutter | Mechanical shutter + electronic shutter |
| Shutter Speeds | 15 – 1/2000 sec.<br>● 15 – 1.3 sec. or slower shutter speeds are available in Shutter-priority mode or Manual mode.<br>● Slow shutter speeds of 1.3 sec. or slower operate with noise reduction. |
| Light Metering System | Evaluative, Center-weighted average or Spot |

(W): Wide angle (T): Telephoto

| | |
|---|---|
| Exposure Control System | Program AE/Shutter-priority AE/Aperture-priority AE/Manual exposure control |
| Exposure Compensation | ± 2 stops in 1/3-stop increments |
| Sensitivity | Auto, ISO 50/100/200/400 equivalent |
| White Balance | Auto, pre-set (available settings: Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H) or custom |
| Built-in Flash | Auto*, on*, off, Slow synchro<br>* Red-eye reduction available |
| Flash Range | Normal: 46 cm – 4.2 m (18 in. – 14 ft.) (W), 46 cm – 2.5 m (18 in. – 8.2 ft.) (T)<br>Macro: 26 – 46 cm (10 in. – 1.5 ft.) (W/T) (ISO speed set to Auto) |
| Shooting Modes | Auto<br>Creative zone: Program, Shutter-speed priority, Aperture priority, Manual<br>Image zone: Portrait, Landscape, Night scene, Fast shutter, Slow shutter, Special Scene (Foliage, Snow, Beach, Fireworks, Underwater and Indoor), Stitch assist and Movie |
| Continuous Shooting | Approx. 2.2 shots/sec.<br>(Large/Fine mode, LCD monitor off) |
| Self-timer | Activates shutter after an approx. 10-sec./approx. 2-sec. delay |
| PC-controlled Shooting | Available (USB connection only. Exclusive software program is included in the camera kit.) |
| Recording Media | CompactFlash™ (CF) card (Type I) |
| File Format | Design rule for Camera File System and DPOF compliant |
| Image Recording Format | Still images: JPEG (Exif 2.2)*[1],<br>Movies: AVI (Image data: Motion JPEG; Audio data: WAVE (monaural)) |

| | | |
|---|---|---|
| Compression | | Superfine, Fine, Normal |
| Number of Recording Pixels | Still Images | Large : 2048 x 1536 pixels Medium 1: 1600 x 1200 pixels<br>Medium 2: 1024 x 768 pixels Small : 640 x 480 pixels |
| | Movies | 640 x 480 pixels (Approx. 30 sec.)*2 320 x 240 pixels (Approx. 3 min.)<br>160 x 120 pixels (Approx. 3 min.)<br>Approx. 15 frames/sec. (The data in parentheses refer to the maximum movie length per shooting.) |
| Playback Modes | | Single (histogram displayable), Index (9 thumbnail images), Magnified (approx. 10x (max.) in LCD monitor), Auto play or Sound memos (up to 60 sec.). |
| Direct Print | | *Canon Direct Print*/*Bubble Jet Direct*/*PictBridge* compatible |
| Display Languages | | 12 languages available for menus and messages (English, German, French, Dutch, Danish, Finnish, Italian, Norwegian, Swedish, Spanish, Chinese and Japanese) |
| My Camera Settings | | The start-up image, start-up sound, shutter sound, operation sound and self-timer sound can be customized using the following methods:<br>1. Using the images and sounds recorded on a camera.<br>2. Downloading data from your computer using the supplied software. |
| Interface | | Universal Serial Bus (mini-B, PTP [Picture Transfer Protocol])<br>Audio/Video output (NTSC or PAL selectable, monaural audio) |
| Power Source | | AA-size alkaline batteries (included in the camera kit)<br>AA-size rechargeable NiMH batteries (sold separately)<br>AC Adapter Kit ACK600 (sold separately) |
| Operating Temperatures | | 0 – 40 °C (32 – 104 °F) |

| | |
|---|---|
| Operating Humidity | 10 – 90% |
| Dimensions | 101.0 x 64.0 x 31.5 mm (4.0 x 2.5 x 1.2 in.) (excluding protrusions) |
| Weight | Approx. 200 g (7.1 oz.) (camera body only) |

*[1] This digital camera supports Exif 2.2 (also called "Exif Print"). Exif Print is a standard for enhancing the communication between digital cameras and printers. By connecting to an Exif Print-compliant printer, the camera's image data at the time of shooting is used and optimized, yielding extremely high quality prints.

*[2] Recording time obtained when using the FC-32MH CF card (included with the camera) or the separately sold FC-256MH or FC-512MSH CF card (not sold in some regions).

## Battery Performance

| | Number of Shots | | Playback Time |
|---|---|---|---|
| | LCD Monitor On | LCD Monitor Off | |
| **AA Alkaline Batteries (included with the camera)** | Approx. 250 shots | Approx. 800 shots | Approx. 280 min. |
| **AA NiMH Battery (NB-2AH)** | Approx. 500 shots | Approx. 1200 shots | Approx. 360 min. |

*The data above reflects standard Canon testing conditions. The actual figures will vary according to the shooting conditions and settings.

### <Test Conditions>

Shooting: Normal temperature (23 °C /73 °F), alternating wide angle end and telephoto end shots at 20-second intervals with flash fired once every four shots and camera power turned off and on every eighth shot.

Playback: Normal temperature (23 °C /73 °F), continuous playback at 3 seconds per image.

- **For information on handling batteries, see *Proper Battery Handling* (p. 18).**

## CF Cards and Estimated Capacities (Recordable Images)

□ CF card included with the camera

| | | FC-32MH | FC-64M | FC-128M | FC-256MH | FC-512MSH |
|---|---|---|---|---|---|---|
| **L** | S | 18 | 38 | 76 | 154 | 308 |
| | | 33 | 68 | 137 | 276 | 552 |
| | | 67 | 136 | 274 | 548 | 1095 |
| **M1** | S | 30 | 61 | 122 | 246 | 491 |
| | | 54 | 109 | 219 | 440 | 879 |
| | | 108 | 217 | 435 | 868 | 1734 |
| **M2** | S | 53 | 107 | 215 | 431 | 855 |
| | | 94 | 189 | 379 | 762 | 1522 |
| | | 174 | 349 | 700 | 1390 | 2714 |
| **S** | S | 120 | 241 | 482 | 962 | 1891 |
| | | 196 | 393 | 788 | 1563 | 3122 |
| | | 337 | 676 | 1355 | 2720 | 5203 |
| **Movie** | 640 | 30 sec. | 61 sec. | 124 sec. | 249 sec. | 499 sec. |
| | 320 | 91 sec. | 183 sec. | 368 sec. | 735 sec. | 1451 sec. |
| | 160 | 242 sec. | 486 sec. | 973 sec. | 1954 sec. | 3902 sec. |

- Some CF cards are not sold in some regions.
- The maximum movie clip length is approximately 30 sec. (640)* or 3 min. (320, 160). The times shown are the maximum continuous recording times.
  - * When using the FC-32MH CF card (included), the separately sold FC-256MH or FC-512MSH CF card (not sold in some regions).
- (Superfine), (Fine) and (Normal) indicate the compression setting.
- **L** (Large), **M1** (Medium 1), **M2** (Medium 2), **S** (Small), 640, 320 and 160 show resolution rates.

| | |
|---|---|
| **L (Large)** | 2048 x 1536 pixels |
| **M1 (Medium 1)** | 1600 x 1200 pixels |
| **M2 (Medium 2)** | 1024 x 768 pixels |
| **S (Small)** | 640 x 480 pixels |
| 640 | 640 x 480 pixels |
| 320 | 320 x 240 pixels |
| 160 | 160 x 120 pixels |

## Image File Size (Estimated)

| | | Superfine | Fine | Normal |
|---|---|---|---|---|
| **L (2048 x 1536 pixels)** | | 1602 KB | 893 KB | 445 KB |
| **M1 (1600 x 1200 pixels)** | | 1002 KB | 558 KB | 278 KB |
| **M2 (1024 x 768 pixels)** | | 570 KB | 320 KB | 170 KB |
| **S (640 x 480 pixels)** | | 249 KB | 150 KB | 84 KB |
| **Movie** | **640 (640 x 480 pixels)** | 990 KB/sec. | | |
| | **320 (320 x 240 pixels)** | 330 KB/sec. | | |
| | **160 (160 x 120 pixels)** | 120 KB/sec. | | |

### NiMH Battery NB-2AH

Supplied with the separately sold NiMH Battery NB4-200 set and the Battery/Charger Kit CBK4-200.

| | |
|---|---|
| **Type** | Rechargeable nickel metal hydride battery |
| **Nominal Voltage** | 1.2 V DC |
| **Typical Capacity** | 2300 mAh (min.: 2150 mAh) |
| **Cycle Life** | Approx. 300 times |
| **Operating Temperatures** | 0 – 35 °C (32 – 95 °F) |
| **Dimensions** | Diameter: 14.5 mm (0.6 in.)<br>Length: 50 mm (2.0 in.) |
| **Weight** | Approx. 29 g (1.0 oz.) |

### Battery Charger CB-4AH/CB-4AHE

Supplied with the optional Battery and Charger Kit CBK4-200.

| | |
|---|---|
| **Rated Input** | 100 – 240 V AC (50/60 Hz),<br>CB-4AH: 16 – 21 VA<br>CB-4AHE: 9.13 – 0.08 A |
| **Rated Output** | 565 mA*1, 1275 mA*2 |
| **Charging Time** | Approx. 250 min.*1,<br>approx. 110 min.*2 |
| **Operating Temperatures** | 0 – 35 °C (32 – 95 °F) |
| **Dimensions** | 65.0 × 105.0 × 27.5 mm<br>(2.6 × 4.1 × 1.1 in.) |
| **Weight** | Approx. 95 g (3.4 oz.) (body only) |

*1 To charge four NB-2AH NiMH batteries
*2 To charge two NB-2AH NiMH batteries loaded one at each end of the battery charger

### Compact Power Adapter CA-PS500

(Supplied with the separately sold AC Adapter Kit ACK600.)

| | |
|---|---|
| **Rated Input** | 100 – 240 V AC (50/60 Hz),<br>16 VA (100V) – 26 VA (240V) |
| **Rated Output** | 4.3 V DC/1.5 A |
| **Operating Temperatures** | 0 – 40 °C (32 – 104 °F) |
| **Dimensions** | 42.5 × 104.4 × 31.4 mm<br>(1.7 × 4.1 × 1.2 in.) |
| **Weight** | Approx. 180 g (6.3 oz.) (body only) |

### CompactFlash™ Card

| | |
|---|---|
| **Card slot type** | Type 1 |
| **Dimensions** | 36.4 × 42.8 × 3.3 mm<br>(1.4 × 1.7 × 0.1 in.) |
| **Weight** | Approx. 10 g (0.4 oz.) |

### Wide Converter WC-DC52 (Sold Separately)

| | |
|---|---|
| **Magnification** | Approx. 0.7x (35 mm film equivalent at wide angle end: approx. 24.5 mm) |
| **Focusing Range (from front of lens)** | Approx. 2 mm (0.08 in.) – infinity (wide angle end and Macro mode) |
| **Thread Diameter** | 52 mm standard filter thread (Conversion Lens Adapter LA-DC52C is required.) |
| **Dimensions** | Diameter: 55.7 mm (2.2 in.)<br>Length: 23.7 mm (0.9 in.) |
| **Weight** | Approx. 74 g (2.6 oz.) |

### Close-up Lens 250D 52 mm (Sold Separately)

| | |
|---|---|
| **Focal Length** | 250 mm |
| **Focusing Range (from front of lens)** | 4 – 25 cm (1.6 – 9.8 in.) (W)<br>13 – 25 cm (5.1 – 9.8 in.) (T) |
| **Thread Diameter** | 52 mm standard filter thread (Conversion Lens Adapter LA-DC52C is required) |
| **Dimensions** | Diameter: 54 mm (2.1 in.)<br>Length: 10.2 mm (0.4 in.) |
| **Weight** | Approx. 55 g (1.9 oz.) |

### Tele-converter TC-DC52 (Sold Separately)

| | |
|---|---|
| **Magnification** | Approx. 2.4x (35 mm film equivalent at telephoto end: approx. 252 mm) |
| **Focusing Range (from front of lens)** | Approx. 1.3 m (Approx. 4.3 ft.) – infinity (at telephoto end) |
| **Thread Diameter** | 52 mm standard filter thread (Conversion Lens Adapter LA-DC52C is required) |
| **Dimensions** | Diameter: 67 mm (2.6 in.)<br>Length: 57 mm (2.2 in.) |
| **Weight** | Approx. 74 g (2.6 oz.) |

### Conversion Lens Adapter LA-DC52C (Sold Separately)

| | |
|---|---|
| **Thread Diameter** | 52 mm standard filter thread |
| **Dimensions** | Diameter: 55.6 mm (2.2 in.)<br>Length: 28.7 mm (1.1 in.) |
| **Weight** | Approx. 11 g (0.39 oz.) |

# Photo Tips and Information

This section offers photography tips.

- **Tip for Using the Self-timer (p. 45)**
  Normally, the camera shakes a little when you press the shutter button.
  Setting the self-timer to delays the shutter release for two seconds and allows the camera to stop shaking, thus preventing a blurred image.
  Even better results can be obtained by placing the camera on a fixed, stable surface or by fixing the camera onto a tripod.
- **To Shoot a Night Scene without a Subject (p. 42)**
  To shot a night scene without any subject in the foreground, set the flash to .
  (A night scene usually consists of light sources in the night. When shooting with the flash, the light of the flash will washout these lights, so it is better to turn the flash off.)
  This mode uses a slow shutter speed so always use a tripod to prevent camera shake.
- **Advanced Technique for the Macro Mode (p. 44)**
  Macro mode can make unique images when used with the zoom function. For example, shooting a flower at maximum wide angle in Macro mode allows the camera to bring both the flower and the background into focus. However, shooting at maximum telephoto can throw the background out of focus to make the flower stand out.



Macro with the wide angle zoom



Macro with the telephoto zoom

- **How to Adjust the Exposure (p. 80)**
  This camera automatically adjusts the exposure to shoot images with the optimal brightness. However, recorded images may sometimes be brighter or darker than the actual image depending on the shooting conditions. If this happens, adjust the exposure compensation manually.

**Underexposure**



The whole recorded image is dark, which makes white elements of the image appear gray. Shooting bright subjects or in backlit conditions may cause the image to be underexposed. Adjust the exposure compensation towards the + end.

**Optimal Exposure**



**Overexposure**

The whole recorded image is bright, which makes black elements of the image appear gray. Shooting dark subjects or in dark places may cause the image to be overexposed. Adjust the exposure compensation towards the - end.



- **ISO Speed (p. 84)**
  The ISO speed is the numeric representation of the camera's sensitivity to light. The higher the ISO speed, the higher the sensitivity. A high ISO speed allows you to shoot images in dark indoor or outdoor conditions without a flash and also helps prevent blurred images due to camera shake. This is convenient when shooting images in places where flash photography is prohibited. The ISO speed setting makes full use of the available light, resulting in images that convey the feel of the place they were shot.



ISO 50 equivalent



ISO 400 equivalent

## A



## B



## C



## D



## E

## **FCC Notice** (Digital Camera, Model PC1202)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions;
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
Note: This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The cables with the ferrite core provided with the digital camera must be used with this equipment in order to comply with Class B limits in Subject B of Part 15 on the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

**Canon U.S.A. Inc.**
One Canon Plaza, Lake Success, NY 11042, U.S.A.
Tel No. (516) 328-5600

**Canadian Radio Interference Regulations**
THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE CAUSING EQUIPMENT REGULATIONS.

**Réglementation canadienne sur les interférences radio**
CET APPAREIL NUMERIQUE DE LA CLASSE B RESPECTE TOUTES LES EXIGENCES DU REGLEMENT SUR LE MATERIEL BROUILLEUR DU CANADA

## Functions Available in Each Shooting Mode

The following chart shows the functions and settings available in each Shooting mode.

| Function | | | AUTO | Portrait | Landscape | Night Scene | Fast Shutter | Slow Shutter | SCN(1) | Stitch Assist | Movie | P | Tv | Av | M | Reference Pages |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Resolution | Large | L | ○* | ○* | ○* | ○* | ○* | ○* | ○* | △* | – | ○* | ○* | ○* | ○* | 40 |
| | Medium 1 | M1 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | △ | – | ○ | ○ | ○ | ○ | |
| | Medium 2 | M2 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | △ | – | ○ | ○ | ○ | ○ | |
| | Small | S | ○ | ○ | ○ | ○ | ○ | ○ | ○ | △ | – | ○ | ○ | ○ | ○ | |
| | Postcard Print | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | – | – | ○ | ○ | ○ | ○ | 53 |
| | Movie | 640 | – | – | – | – | – | – | – | – | ○ | – | – | – | – | 40 |
| | Movie | 320 | – | – | – | – | – | – | – | – | ○* | – | – | – | – | |
| | Movie | 160 | – | – | – | – | – | – | – | – | ○ | – | – | – | – | |
| Compression | Superfine | S | ○ | ○ | ○ | ○ | ○ | ○ | ○ | △ | – | ○ | ○ | ○ | ○ | 40 |
| | Fine | | ○* | ○* | ○* | ○* | ○* | ○* | ○* | △* | – | ○* | ○* | ○* | ○* | |
| | Normal | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | △ | – | ○ | ○ | ○ | ○ | |
| Flash | Auto | A | ○* | ○* | ○ | ○* | ○* | ○ | ○* | – | – | ○ | – | – | – | 42 |
| | On | | – | ○ | ○ | ○ | ○ | ○ | ○ | △ | – | ○ | ○ | ○ | ○ | |
| | Off | | ○ | ○ | ○* | ○ | ○ | ○* | ○ | △* | – | ○* | ○* | ○* | ○* | |
| Red-eye Reduction | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | △ | – | ○ | ○ | ○ | ○ | 42 |
| Flash Output | | | – | – | – | – | – | – | – | – | – | – | – | – | ○ | 86 |
| AF-assist Beam | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | △ | ○ | ○ | ○ | ○ | ○ | 36 |

| Function | | | AUTO | [Portrait] | [Landscape] | [Night Snapshot] | [Kids & Pets] | [Indoor] | SCN [(1)] | [Stitch Assist] | [Movie] | P | Tv | Av | M | Reference Pages |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Drive Mode** | Single Shot | [Single Shot icon] | ○* | ○* | ○* | ○* | ○* | ○* | ○* | △* | ○* | ○* | ○* | ○* | ○* | – |
| | Continuous Mode | [Continuous icon] | – | ○ | ○ | ○ | ○ | ○ | ○ | – | – | ○ | ○ | ○ | ○ | 47 |
| | Self-timer (10 sec.) | [Self-timer 10 icon] | ○ | ○ | ○ | ○ | ○ | ○ | ○ | △ | ○ | ○ | ○ | ○ | ○ | 45 |
| | Self-timer (2 sec.) | [Self-timer 2 icon] | ○ | ○ | ○ | ○ | ○ | ○ | ○ | △ | ○ | ○ | ○ | ○ | ○ | |
| **AF System Selection** | | AiAF | – | ○ | ○ | ○ | ○ | ○ | ○ | – | – | ○ | ○ | ○ | ○ | 78 |
| **AF Lock** | | | – | ○ | ○ | ○ | ○ | ○ | ○ | – | ○ | ○ | ○ | ○ | ○ | 87 |
| **Manual Focus** | | MF | – | ○ | ○ | ○ | ○ | ○ | ○ | – | ○ | ○ | ○ | ○ | ○ | 89 |
| **Macro Mode** | | [Macro icon] | ○ | ○ | – | ○ | ○ | ○ | ○ | △ | ○ | ○ | ○ | ○ | ○ | 44 |
| **Digital Zoom** [Digital Zoom icon] | | ON | ○ | ○ | ○ | ○ | ○ | ○ | ○ | – | – | ○ | ○ | ○ | ○ | 46 |
| | | OFF | ○* | ○* | ○* | ○* | ○* | ○* | ○* | – | – | ○* | ○* | ○* | ○* | |
| **Exposure Compensation** | | [Exposure Compensation icon] | – | ○ | ○ | ○ | ○ | ○ | ○ | △ | ○ | ○ | ○ | ○ | – | 80 |
| **Light Metering System** | Evaluative Metering | [Evaluative icon] | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○* | ○* | ○* | ○* | 79 |
| | Center-Weighted Averaging | [Center-Weighted icon] | – | – | – | – | – | – | – | – | – | ○ | ○ | ○ | ○ | |
| | Spot Metering | [Spot icon] | – | – | – | – | – | – | – | – | – | ○ | ○ | ○ | ○ | |
| **White Balance** [(2)] | | WB | –[(3)] | ○ | ○ | ○ | ○ | ○ | –[(4)] | △ | ○ | ○ | ○ | ○ | ○ | 81 |
| **Photo Effect** | | [Photo Effect icon] | – | ○ | ○ | ○ | ○ | ○ | –[(4)] | △ | ○ | ○ | ○ | ○ | ○ | 85 |

| Function | | | AUTO | Portrait | Landscape | Night Scene | Fast Shutter | Slow Shutter | SCN(1) | Stitch Assist | Movie | P | Tv | Av | M | Reference Pages |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ISO Speed | ISO | | –(4) | –(4) | –(4) | –(4) | –(4) | –(4) | –(4) | –(4) | –(4) | O | O | O | O(5) | 84 |
| Auto Rotate | | ON | O* | O* | O* | O* | O* | O* | O* | △* | – | O* | O* | O* | O* | 89 |
| | | OFF | O | O | O | O | O | O | O | △ | – | O | O | O | O | |

* : Default settings O : Available △: Available only for the first image – : Not available

(shaded box) : Setting remains in effect even when the camera is turned off.

The default for the settings changed by the menu and button operations can be restored all at once except for [Date/Time], [Language] and [Video System] (p. 73).

(1)The default setting of the flash for the [Foliage] and [Fireworks] options is [Off].
The following functions cannot be set in the [Fireworks] mode.
- The [Auto] and [On] setting of the flash
- Red-eye reduction function
- AF-assist beam
- AF System selection
- Macro mode
- AF lock
- Manual focus

(2)The photo effect [Sepia] and [B/W] cannot be selected.

(3)The white balance is set to [AUTO].

(4)Settings automatically set by the camera.

(5)ISO [AUTO] cannot be selected.